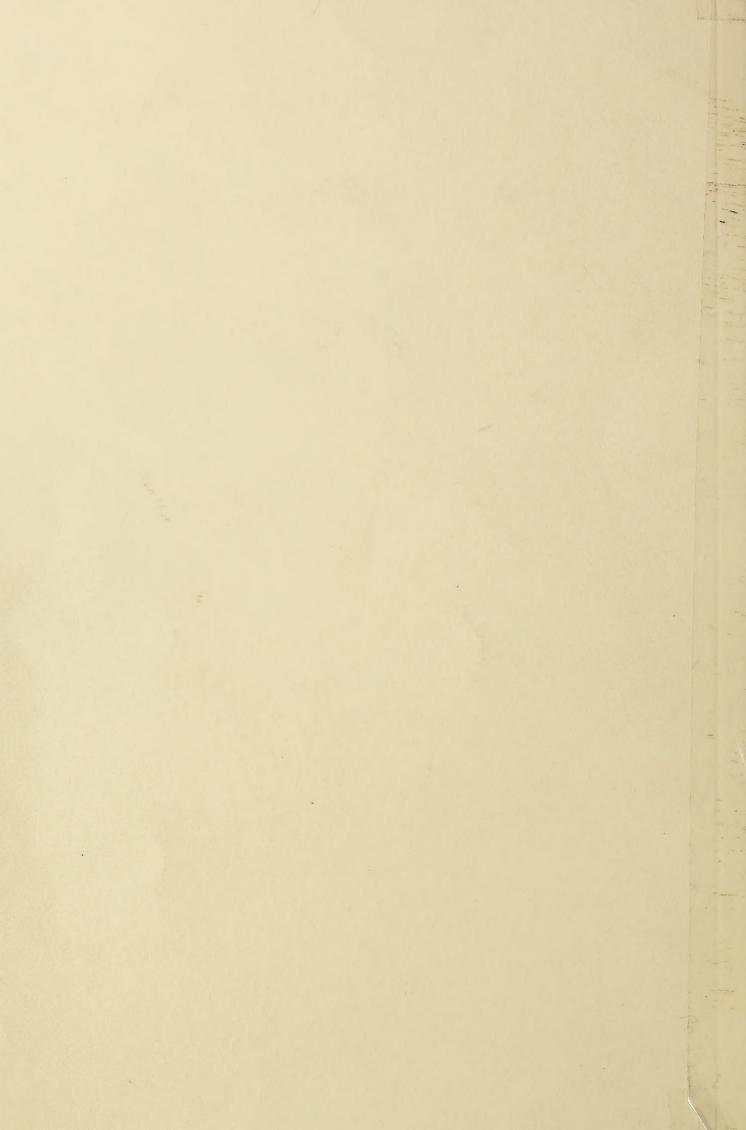
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ANNUAL DESCRIPTIVE CATALOGUE OF

THE LARGEST COLLECTION IN THE WORLD.



Bulked 1893



FORTHE

15 JOHN STREET, NEW YORK.



SCALE OF MAXIMUM EXPRESS Shipped from New York. CHARGES ON PACKAGES OF SEEDS, ETC

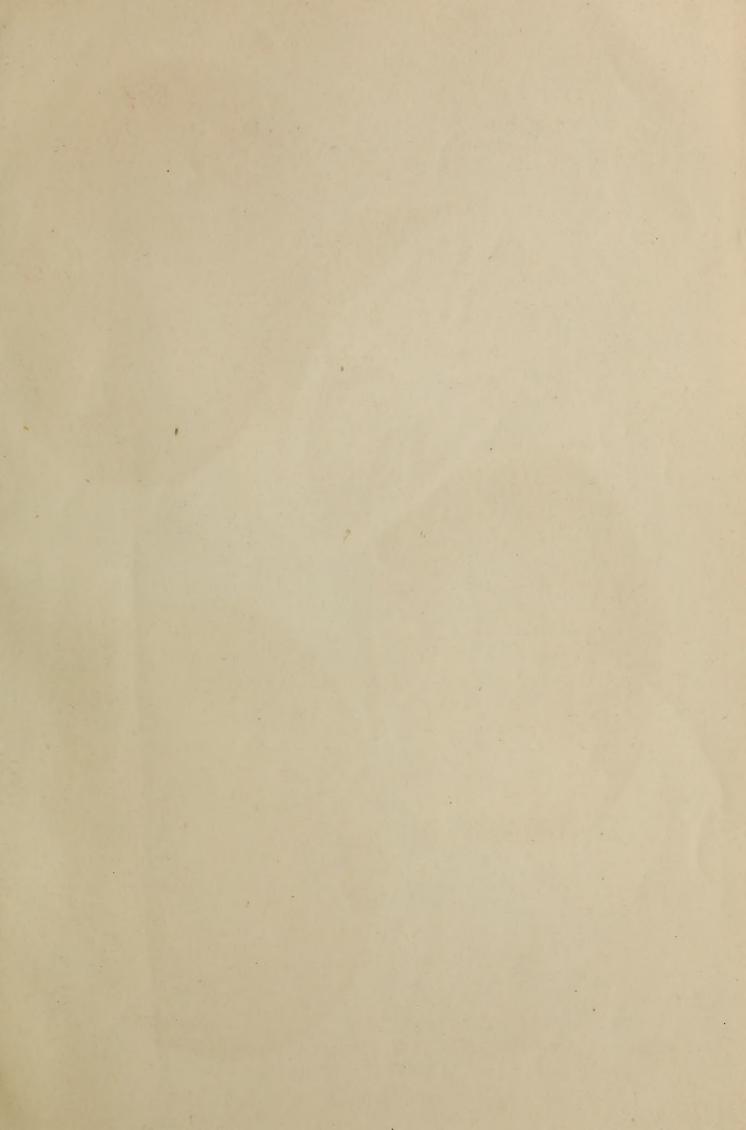
For the guidance and convenience of our Customers, we have prepared the following Table of Rates as charged by the Express Companies from New York to most of the Express Stations in the various States and Territories. These rates are only approximate. It is impossible to give them exactly, as different rates are charged to different parts of the same State. We will undertake, however, to deliver them to any of the Express Stations at these figures.

SPECIAL EXPRESS RATES ON SEEDS.—If Prepaid many Express Companies now take Flower, Tree and Garden Seeds and Bulbs, when done up in packages not ex-

ceeding four pounds in weight, at the rate of ten cents for each one and a-half pounds or less, and one cent for each additional two ounces or fraction thereof.

Thus a four-pound package of seeds may be sent to California for thirty cents if prepaid; otherwise it would cost eighty cents.

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THORBURN'S LONG-KEEPER TOWATO THORBURN'S LEMON BLUSH TOMATO THORBURN'S TERRA COTTA TONATO.

ANNUAL CATALOGUE

OF

J. M. Thorburn & Co.'s SEEDS.

IN ISSUING our Ninety-second Annual Catalogue, we would observe that our leading business principle has always been to supply only the very HIGHEST CLASS of seeds, and the fact that we have commanded the leading wholesale and market-gardeners' trade of this country for nearly a century should justify our claim to the patronage of those who have not yet experienced the advantage of dealing with us.

We would call attention to the descriptions and directions given in this Catalogue concerning each variety of seeds and their culture. They are as full and explicit as the limited space of a Catalogue will admit, and worthy of constant reference and study. The directions are derived from years of experience, and aim to meet the requirements of soil, climate and culture in and around New York. For more northern or southern localities, changes in the time of sowing, etc., are, of course, necessary, and will readily suggest themselves to gardeners.

Whenever our Customers desire it, we will select an assortment of seasonable seeds, suited to their wants. All such orders will receive especial care and attention. The only information we require is the size of the garden and the sum proposed to be expended for seeds. We would advise making an early test of seeds, by sowing some of each variety in a flower pot, and keeping them warm and well watered.

Write Orders upon a blank sheet, separate from letter. Orders from new customers should be accompanied by a Post Office or Express Money Order, if convenient, or bankbills, if the amount enclosed is not large. Address always, J. M. Thorburn & Co., 15 John Street, New York.

PRICES.—The prices quoted are those ruling at this date, and do not include free transit, except for flower seeds in packets. Please add for prepayment of postage or express, as below noted. All ordinary sorts of seed can be had in five-cent papers.

Seeds by Mail or Express.—8 cents per pound should be added for prepayment of postage, if wanted by mail. Charges by express are not uniform, rates depending on distance and locality; see table of express tariff on second page of cover. Except for small parcels, and to remote parts, the express companies will be found the most economical mode of conveyance; of course we shall always adopt that mode which costs the least. Neither have we charged for a guarantee of safe arrival by mail; it is rare, however, that seeds fail to reach their destination safely in that way.

It is very important that our customers send in their orders immediately on receipt of this catalogue, instead of waiting till the time when they wish to sow the seed; and to save time, seeds may be ordered by the numbers in the first column, if desired.

Name, address, etc.—We beg our correspondents to give us very exactly, on each of their orders, their name and address; also to indicate very precisely the means of carriage which they prefer, whether by EXPRESS, FREIGHT or MAIL, and the office or railroad station which best serves their locality. In case these directions are not followed out, or if they are not sufficient, we will choose ourselves the most advantageous and convenient means, but entirely at the risk of the customer, avoiding ourselves all responsibility.

SHIPMENTS by Express, "C. O. D."—Unless otherwise instructed, we shall send all such goods as go by express C. O. D. Orders from unknown customers not desiring this mode of carriage should be accompanied by the cash.

WARRANTIES.—Seeds of the best possible quality will fail through improper treatment. Thus, if a small seed be sown so deep that the young plant cannot reach the surface, the seed, however good, will fail. More failures result from a want of proper knowledge of conditions necessary to germination than from bad quality of seeds themselves. These conditions are: a proper temperature, sufficient moisture, and free access of air; besides these, the soil must be in proper condition, and present no physical obstacle to the growth of the young plant. If heavy rains have compacted the surface of the soil, and the sun has baked it to a hard crust, it will be impossible, even if all other conditions are favorable, for the seedling plants to force their way through it, and many perish from this cause alone. Seeds differ greatly as to the temperature required for germination. Beets, Cress, Peas, etc., germinate readily at a temperature ot 45°; but if Melons and other seeds of that family, bush or pole Beans, and other plants of sub-tropical origin, are sown under the same conditions, they will be apt to decay, as for their prompt germination they require a heat of at least 60°. From this reason many seeds fail yearly from too early sowing. The second condition, proper moisture, is likely to be violated by an excess rather than by too little moisture. The proper amount is that which a well-drained soil will naturally hold. Free access of air is all important, and this is interfered with by an excess of water in the soil. In germination complex chemical changes take place in the seeds, in which the air performs an important part. A portion of the seed is consumed, carbonic acid gas being given off, in changing the starch and other constituents of the seed into nutriment to forward the growth of the germ or embryo plant, which depends upon the contents of the seed until it has formed roots below ground and leaves above, and is able to sustain itself. Besides these conditions affecting the germination of the seed, the young plants, after they have made their way to the surface, are liable to various accidents; a sudden current of very cold air, or a continued drying wind, may check their growth, or destroy the young plants altogether; besides these, there are numerous insects, both below and above ground, that may attack the plants, some of these being so small that they often destroy a crop before they are discovered.

For the above reasons, we wish to state in this explicit form, that, while we exercise great care to have all Seeds pure, reliable, and true to name, our Seeds are sold without any warranty, expressed or implied, and without any responsibility in respect to the crop. If our Seeds are not accepted on these terms, they must be returned at once.

JAMES M. THORBURN, F. W. BRUGGERHOF.

J. M. THORBURN & CO.,

15 John Street, New York.

In February we publish a list of GLADIOLUS AND SPRING BULBS, and in September a catalogue of DUTCH BULBOUS ROOTS.

DIRECTIONS FOR THE CULTIVATION OF VEGETABLES.

To secure a good crop of vegetables, three things at least are necessary, viz., a suitable soil, pure seed, and clean culture; to which may be added as equally necessary, an abundant supply of good barn-yard manure, supplemented, when this runs short, by artificial fertilizers. The exposure for a vegetable garden should be preferably south or southeast, or nearly so. The soil should be naturally rich and friable, a sandy loam being among the best. If the soil be stiff it should be gradually mellowed by the free use of barn-yard manure, or, if convenient, by the addition of sand. If wet, or inclined to hold an excess of moisture, it should be under-drained, preferably by tile; but if possible, a location should be selected naturally dry and free from surface water.

A dark colored soil, or one supplied with a goodly portion of decayed vegetable matter, will produce the earliest crops. If the soil be shallow, it should be deepened gradually by plowing or spading an inch or two deeper each year, and not all at once by trenching or sub-soiling, unless manure and money be both abundant. A sandy soil may be greatly improved by adding more or less vegetable mould from the woods. To produce the best and uniform results, the vegetable garden should have at least one foot of good rich soil. The roots of large trees should not be allowed to encroach on any part of the garden, though large trees, especially evergreens, sufficiently far off, afford a valuable protection on the north and west.

Mark the garden off into squares or beds of convenient size, to facilitate the practice of a rotation of crops, which is an important matter. As a rule, never let the same crop or kind of vegetable occupy the same bed or spot two years in succession. Potatoes, onions and a few other things may form an exception to this rule, but it is nevertheless better to keep up the rotation. Every year these beds must be warmed up by a liberal coat of manure, which should be thoroughly mixed with the soil. Grow everything in drills or

straight lines. Larger crops from a given surface are grown in this way, and cultivation becomes simple and comparatively easy. The space between the drills, and other special information, is given in the body of the catalogue; the least distance is named, in order to economize space—it might be increased in some cases with advantage.

The ground should be frequently hoed to kill the weeds and keep the soil mellow; and the proper time to hoe is just when the weeds appear above ground. Briefly, the proper way to kill weeds is never to let them grow. If the weeding be done at the time suggested, it can be mostly and quickly done by the use of a sharp-toothed steel rake.

Where the material and conveniences are at hand, much time may be gained by starting certain kinds of plant in a hot-bed, or even in a cold-frame, the latter being a very convenient thing, even on a small place. The hot-bed is chiefly intended for raising early Tomatoes, Egg-Plants, Peppers, Cabbage, Cauliflower, Lettuce, etc.; but as all these plants can now be bought cheaply of the seedsmen at the proper time, the expense and labor of a hot-bed can, in many cases, be dispensed with, especially on small places.

The above brief suggestions, and the special directions dispersed through the catalogue, if carefully observed, will go far toward securing early and abundant crops.

To Prepare a Cold-Frame. —The cold-frame is simply a frame set on the ground, no bottom heat being applied. It is banked up on the outside during the winter with salt hay, straw, or coarse litter. The soil is prepared by forking in and thoroughly mixing to the depth of ten or twelve inches a liberal quantity of old, well-rotted manure. The manure of an old hot-bed is good for the purpose. The frame is prepared in the fall, and young Cabbage, Cauliflower, and Lettuce plants set out in it in time to get well established before very cold weather. Cauliflower and Cabbage should be set down to the first leaf, and the soil made firm around the plants. The seed is usually sown, in the vicinity of New York, from the 15th to the 20th of September, but the very early kinds some eight or ten days later. The young plants will be ready to transplant in about twenty-five or thirty days. During cold nights and stormy days, the beds should be closely covered with the sashes, and these further protected by straw mats or shutters. Cauliflower needs more and closer protection than Cabbage, as it is rather more tender. During mild days admit air freely, the object being to keep the plants in a dormant state, without actual freezing, so that when spring comes the plants are in a forward state for setting out early crops. Seeds of Cabbage, Cauliflower, Lettuce and Radish may be sown in a cold-frame in the spring from the last week in February to the first week in March. The frame should stand in a warm and sheltered spot, and be kept from freezing by mats or a thick covering of straw during cold nights.

DIRECTIONS FOR MAKING A HOT-BED.

In the vicinity of New York, from the first to the middle of March is quite early enough to make a hotbed, and even a little later will do well enough. The time must vary according to the latitude. Provide a quantity of fresh horse manure from the stables, and add to this, if they can be had, one-third to one-half of its bulk of leaves. Mix them thoroughly, tramping down the mass in successive layers, and form into a large pile, so that fermentation will proceed even in severe cold weather. In two or three days fermentation will be apparent by the escape of steam from the heap. Now turn again, and allow the heap to remain two or three days longer, or until the second fermentation commences. Make an excavation, or pittwo-and-a-half feet deep, and of a size suited to the number of plants required. The pit will be better if built up of brick. It should be made in some dry, sheltered spot, facing the south or east if possible. Hotbed sashes are usually 6x3 feet, and one sash will generally give early plants enough for a large family. The frame for sashes should be eighteen inches high at the back and twelve inches in front, which will give the proper slope to catch the sunlight. Cross-pieces should be placed for the sashes to slide on, to facilitate opening and shutting the frames. When everything is ready, the manure is placed in the pit and trodden down firmly in layers to the required depth, two to two-and-a-half feet. Then put on the sashes, and keep the pit closed until the heat rises. At first it will probably be 100° or more, which is too hot to sow the seed in; but in two or three days it will subside to 90° or a little less, when the soil may be put on to the depth of six to eight inches. The heat may be readily ascertained by plunging a thermometer in the manure. The soil should be of well-rotted sod (or common garden soil will do) mixed with about a third of fine, old manure, and in this the seeds may be sown thinly in drills two or three inches apart, and afterwards (as soon as out of the seed-leaf) either thinned out or else transplanted to another frame. Air must be given every mild day by raising the sashes at the back. Water with tepid water whenever necessary, and during cold nights and snow storms keep covered with straw mats or board shutters. Tomatoes, Peppers and Egg Plants should be sown in a separate frame from the Cabbage, Cauliflower and Lettuce, as they require more heat than the latter. The same directions may apply to hot-beds made on the surface of the ground, except that the manure should be at least a foot wider on all sides than the frame.

New, Rare and Valuable Flower Seeds.

Amaranthus superbus.

A first-class decorative plant of very rapid growth, attaining within a few months a height of about six feet; the leaves are blood-red, with bright yellow border, and the panicles are slightly drooping. It is extremely easy to cultivate, and will be found most valuable for groups. Per pkt., 25 cts.

Aster, Comet, Snow=White.

The flowers of this splendid new class are very large and extremely double, with incurved petals, giving them the appearance of the finest Japanese chrysanthemums. We have pleasure in offering this year a beautiful snow-white variety, which we believe will become the leading variety of this class. It is perhaps the whitest of all Asters, and the flowers are perfect in form. Per pkt., 30 cts.

Aster, Mignon, Rose.

This new class resembles in habit, height and form the Victoria race, but is much more floriferous. The flowers are of the finest form, and can be kept fresh in water longer than those of any other sort. The best Aster for cutting. Per pkt., 25 cts.

Calendula officinalis grandiflora sulphurea fl. pl.

(New Double Large-flowered Pot Marigold.)

A new variety of the improved compact-growing Pot Marigold, producing very large and extremely double flowers of a pleasing sulphur-yellow color. Per pkt., 25 cts.

Canna, Madame Crozy.

Of the many fine varieties of the celebrated Crozy Cannas, this is undoubtedly the grandest. It is of erect and compact habit, attaining a height of about three feet; it is extremely floriferous, and the large flowers, which are of a splendid bright vermilion, bordered with golden yellow, are produced uninterruptedly until frost. The light green foliage is also very handsome. Per pkt. of 20 seeds, 25 cts.

Carnation, Double Margaret.

Probably no plant of recent introduction is destined to be so generally useful as this new race of annual Double Carnations. Seed sown in spring will flower all summer, and seed sown in the fall and kept under glass will flower freely all winter. For cut-flowers they are simply invaluable, as they come into flower so

soon after sowing and produce such an abundance of blooms. They are equally suitable for open air or pot-culture, being of very vigorous growth and extremely dwarf and compact in habit. In addition to the superb mixtures offered last year, we have this year two self-colors:

White										-	,.	(0							Per \$0	pkt. 40
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Cyclamen persicum giganteum.

We invite particular attention to our unequalled strain of this large-flowering Cyclamen. An assortment of seven different single varieties, and also a new double dark purple variety will be found on page 84 of this catalogue. The seeds are collected for us expressly from the celebrated collection in the German Imperial Gardens in Berlin. The plants will flower in twelve months from time of sowing the seed.

Delphinium sulphureum.

A yellow-flowered perennial Larkspur; very fine. Per pkt., 25 cts.



CANNA, MADAME CROZY.

Centrosema grandiflora. (Butterfly Pea.)

A hardy perennial vine of rare and exquisite beauty, and absolutely new to cultivation. It blooms in



Heuchera sanguinea.

One of the finest hardy perennials of recent introduction, and recommended as an excellent plant for furnishing cut-flowers. Its general character is sufficiently indicated by the illustration below. It is allied to the saxifragas, and is of a neat, bushy habit; the flowers are of a rich, bright crimson color; the leaves light green and slightly hairy. The graceful flower-spikes are excellent for bouquets. Per pkt., 25 cts.

Humulus Japonicus fol. variegatus.

(Variegated Japanese Hop.)

A very attractive new variety of Japanese Hop, with beautiful silvery white varicgated or blotched leaves; it is as hardy as the green-leaved species, and will prove to be an admirable decorative climbing plant, well suited for covering fences, etc. Eighty per cent. of the seedlings of this variety will come true from seed. Per pkt., 25 cts.

Lobelia erinus compacta "Goldelse."

The chief merit of this new Lobelia will be found in the effective and agreeable contrast between its foliage and its flowers; the leaves are of a rich, golden yellow, similar to those of the popular "Golden Feather," while the flowers are of a beautiful brilliant blue. A plant that of itself supplies two such striking colors must prove especially valuable for carpet-bedding. It will also be found desirable for border and pot-culture. Per pkt., 25 cts.

Mignonette, Improved Victoria.

This beautiful new Mignonette grows only about six inches high, and is remarkable for its perfectly regular, pyramidal habit, and its elegant, beautifully formed spikes are profusely covered with brilliant red flowers; the flowers are larger and of a brighter red than those of the old Victoria Mignonette, and they contrast effectively with its dark, glossy green foliage. A valuable acquisition either for pot-culture or for groups and edgings. Per pkt., 25 cts.

Molucella spinosa.

A valuable annual and biennial Shell-flower, newly introduced from Assyria. When young its chief attraction is in its numerous delicate, rose flowers, but it grows rapidly to a height of 6 to 8 feet, and is then most valuable on account of its light green foliage, which contrasts most effectively with its brownish red, four-cornered stems; it is an excellent plant for grouping or for single specimens on lawns; the highly ornamental leaves are useful for table decorations. Sown in frames from March to April, and transplanted into the open ground, it blooms from June to October. Per pkt., 25 cts.

Petunia grandiflora violacea fl. pl.

Every one has been struck with the beautiful, deep violet shades obtained among large-flowering Petunias. We are now in a position to offer a fine double variety, with very large, deep violet-colored flowers. About 30 per cent. of the seedlings bear double flowers, and the remaining single ones are of the same rich and effective shade of color. Per pkt., 40 cts.



HEUCHERA SANGUINEA.

Petunia, California Large-flowered Hybrid.

This new strain of single Petunia is remarkable in many respects. The flowers are extremely deep-



TULIP POPPY

throated and very large, some of them measuring five inches in diameter. The colors are varied, many of them intense, in diameter. The colors are varied, many or them intense, and some of them in combinations quite new in Petunias; some specimens are exquisitely pencilled, and others are self-colored and beautifully fringed. The seed we offer is from plants selected for excellence in size, form, fringe and marking. Per pkt., 50 cts.

Phlox Drummondii lutea fl. pl.

Of late years several semi-double flowering Phlox Drummondii have been introduced, the value of which as cut-flowers will have been recognized by those who have tried them. The very pretty yellow-flowering variety now offered comes quite true from seed, and possesses a slight per-fume. It is worthy of note that in order to produce the best double flowers these Phloxes should be grown in a light soil. Per pkt., 20 cts.

Cardinal Poppy.

This novelty is distinguished by its very dwarf, compact and robust habit. The plant grows about 18 inches high, producing 10 or 12 exceedingly large and extra-double flowers of a brilliant scarlet color on white ground, which contrasts strikingly with its dark green foliage. It continues to bloom much longer than any other double annual variety, and its exceptionally showy flowers render it very effective either for beds or mixed borders. Per pkt., 10 cts.

New Double Scarlet Iceland Poppy.

(Papaver nudicaule coccineum fl. pl.)

The Iceland Poppy is one of the most attractive early-flowering perennials, and we have much pleasure in offering this new double-flowering form of the bright orange-scarlet

variety. The seeds now offered will produce about 40 to 50 per cent. of true plants, with perfectly double flowers. The Iceland Poppy has of late become such a general favorite that we are sure this new variety will be greeted as a valuable addition to the tribe. Per pkt., 20 cts.

Tulip Poppy. (Papaver glaucum.)

This splendid decorative annual is a native of Armenia, whence it was recently introduced. The plant grows from 12 to 14 inches high, and produces from 50 to 60 large flowers, in form as shown in our illustration, and in color of the most vivid scarlet. The intensity and brilliancy of the color reminds one of the well-known Scarlet Duc Van Thol Tulip, hence the appropriateness of the popular name "Tulip Poppy." It is specially suited for the formation of brilliant masses of color, or for imparting brightness to more somber plants. Per pkt., 10 cts.

Primula Chinensis fimbriata "Standard."

A new and greatly improved variety of this popular greenhouse plant. The flowers are a third larger than those of the ordinary Fringed Chinese Primrose, and the whole plant is of much stronger growth. We offer seed of two separate colors, viz.: White, per pkt., 40 cts.; Rose, per pkt., 40 cts.

Salvia splendens: Four Splendid New Varieties.

We have pleasure in introducing the following new strains of this popular bedding plant. They should be started indoors not later than April, and transplanted to the outside when warm weather sets in.

Salvia splendens grandiflora. New; very large-flowered variety; quite distinct. Per pkt., 25 cts.
Salvia splendens, New Cherry-Red. Superb variety of beautiful cherry-red color. Per pkt., 25 cts.
Salvia splendens, New Apple-Blossom. Splendid novelty, of a lovely light pink color. Per pkt., 25 cts.
Salvia splendens compacta erecta.
Dwarf, erect spikes of dense miniature flowers of a vivid dark scarlet; a novelty of great value. Per

pkt., 10 cts.

Sweet Peas.

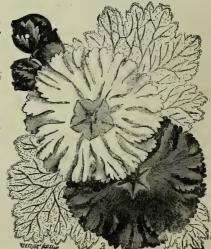
For our splendid collection of new and standard varieties, see page 106 of this Catalogue.

Verbascum pannosum.

This very fine perennial species comes from Macedonia. The plants attain a height of 4 to 5 feet, having splendid leaves two feet long and eight inches wide, of lanceolate shape and thickly covered with white, woolly fibre resembling those of Salvia argentea. The flower-stalks are about two feet in length, bearing large, sulphur-yellow flowers Single specimens of this plant are strikingly beautiful, and will be found highly decorative when planted in isolated positions. Per pkt., 25 cts.

Zinnia Haageana, Double Yellow.

This is a most decided improvement upon the old Zinnia Haageana, growing scarcely half as high, being much more compact in growth, and producing three times as many flowers, which are of an intense orangeyellow; very suitable for pot-culture and for edgings. Per pkt., 15 cts.



PRIMULA CHINENSIS FIMBRIATA STANDARD.

NEW, RARE AND VALUABLE VEGETABLE SEEDS.

Bean, Thorburn Dwarf Lima. (Kumerle Strain.)

This unique and remarkable Bean is a dwarf form of our famous Challenger Lima-the finest of all Pole

Limas. Though this was the first Dwarf Lima ever introduced, owing to successive unfavorable seasons in the locality in which we were having it grown, we have been unable to offer it in bulk until now.

For the following special merits we commend it

to our customers

1st. It is a veritable *Dwarf* Lima, growing only from 12 to 18 inches high, perfectly fixed in habit and with hardly any inclination of running to vine. It is consequently more easily cultivated and takes up less room than the ordinary running sort. It is also considerably earlier in bearing than the pole varieties.

2nd. It possesses in full the delicious flavor characteristic of the genuine Challenger Lima-a merit which, in a Dwarf Lima, is exclusively its In this respect it differs from all other Bush own.

Limas.

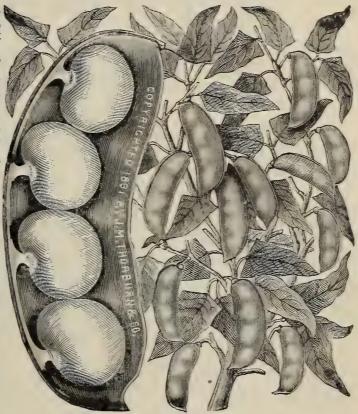
It is exceedingly productive-a single bush, brought into our office here, bearing no less than 47 pods. Some of these contained two, some four, but most of them three beans, all as large as those of the ordinary Challenger Lima. The pods are short and unusually thick, and display the seeds inside by prominent knobs as shown in our illus-tration. They should be planted two feet apart tration. They should be planted two reet apart and one foot in the row. One plant only should be allowed to grow in a hill. Per packet of 18 beans, 20 cts.; ½ pint, 75 cts.; pint, \$1.25; quart, \$2.

Bean, Burpee Bush Lima.

The following is the introducer's description of this novelty:



BURPEE BUSH LIMA-BEAN



THORBURN DWARF LIMA-BEAN.

"The bushes grow eighteen to twenty-two inches high, of stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush, from two feet to three feet in diameter. The leaves are of very large size and great substance. The bush character is thoroughly established, not one plant in a thousand showing any disposi-tion to "run." The thickness of the main stalk and branches of the plant, as also the unusual size, healthy green color and thick leathery substance of the leaves, indicate the strong constitution of this variety, by which it is enabled to bear large crops, and is also a sure cropper. It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled with very large beans, which are identical in size and luscious flavor to the well known large pole Limas. By the introduction of this most valuable novelty, the largest and best Lima-Beans can now be raised in quantity at small cost, without the expense and labor attached to the use of poles." Per packet of 20 beans, 15 cts.; per ½ pint. 40 cts.; per pint, 75 cts.; per quart, \$1.25.

Cauliflower, Thorburn Gilt-Edge.

The very best and surest of all, without any exception. It is a sure header, either for early or late sowing, and can be left longer in the field without decaying than any other sort. It matures immediately after Thorburn Snowball, but is a much heavier sort. Per pkt., 25 cts.; per oz., \$3.

Cucumber, Thorburn Everbearing.



THORBURN EVERBEARING CUCUMBER.

We again call special attention to this entirely new and unique variety. It is of small size, very early, enormously productive, and valuable as a green pickler.

The peculiar merit of this novelty is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not-in which respect it differs from all other sorts in cultivation. Cucumbers in every stage of growth will be found on the same vine. Per oz., 10 cts.; per ½ lb., 30 cts.; per lb., \$1.

Cucumber, Thorburn Commercial Pickle.

This new variety is, in many points, a marked improve-ment on all other strains of White Spine, to which class it belongs. It is very uniform in shape and size, tender and

crisp when used for slicing; very productive, and sure to justify its name as the very best commercial pickling Cucumber. It retains its dark green color after being picked longer than any other variety. The vines make a very strong and vigorous growth, and the fruit "sets" in great abundance. It is also earlier and remains in bearing longer than the old strains of White Spine, will most certainly supplant when it is generally known. Per oz., 15 cts.; per 1/4 lb., 40 cts.; per lb., \$1.25.

Cucumber, Japanese Climbing.

A new climbing Cucumber from Japan, suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table use or pickling, being of a medium size, netted, dark green, very tender and fine-flavored. Admirably adapted to outdoor cultivation. Per pkt., 20 cts.

Lettuce, Thorburn Market-Gardener's Private Stock.

A selected strain of Butter Lettuce, introduced by us four years ago. It has very large and solid heads, resisting the sun for a long time before running to seed. Suitable for starting under glass and transplanting in early spring, or sowing in open ground for a summer crop. Has been thoroughly tried, and obtains great favor among discriminating growers everywhere. This and our Large Boston are the two most popular strains with New York gardeners. Per oz., 30 cts.; per lb., \$3.

Musk-Melon, Long Island Beauty.

A splendid new variety of the Hackensack type. originated on Long Island. It is of very superior quality, with green flesh, and densely netted. In shape it resembles the Hackensack, but is slightly more ribbed, and is decidedly the most attractive looking melon we have ever seen. Besides being of a collection including every standard variety, it the most beautiful, it is also the earliest of all. produced the first ripe melon of the season. gives it especial value for market-gardeners, and is interesting in contrast with the new variety mentioned below, which so greatly extends the season in its late maturity. Per pkt., 10 cts.; per oz., 40 cts.; per lb., \$4.



THORBURN MARKET-GARDENER'S PRIVATE STOCK LETTUCE.

Musk-Melon, Winter Pineapple.

WINTER PINEAPPLE MUSK-MELON.

This remarkable Melon is a native of Cassaba, Asia Minor, whence it was recently introduced into this country. Its unique appearance is accurately represented by our cut, the skin being corrugated instead of netted, and in color a rich yellow, tinged with green. The flesh, which is of a light green color, possesses a most pronounced and agreeable pineapple flavor. Its most valuable characteristic, however, is its wonderful long-keeping qualities. The melons do not ripen on the vine, but should be picked off after the first frosts, handled very carefully, and stored (like squashes) in a cool, dry place, where they will gradually ripen. (They should be brought into a warm room a day or two before using.) this way it is said they can be kept in good condition all through the winter, which would render the variety extremely desirable, as extending greatly the season of a healthful and delicious fruit. In this locality the seed should be planted in pots and frames, and set out only when hot weather begins; otherwise maturity may not be reached. Per pkt., 10 cts.; per oz., 40 cts.; per ½ lb., \$1.25; per lb., \$4.

Pepper, Bird's Eye, or Creole.

A very small, bright red pepper, about the size of a Marrowfat pea. It is extremely pungent, and is used in the manufacture of the celebrated "Tabasco Sauce." It will be popular for the many sauces made by American housewives. Per pkt., 10 cts.; per oz., 40 cts.; per 1/4 lb., \$1.25; per lb., \$4.

Pea, "Exonian."

An extra early new wrinkled marrow pea, now offered for the first time. It is not a selection from any

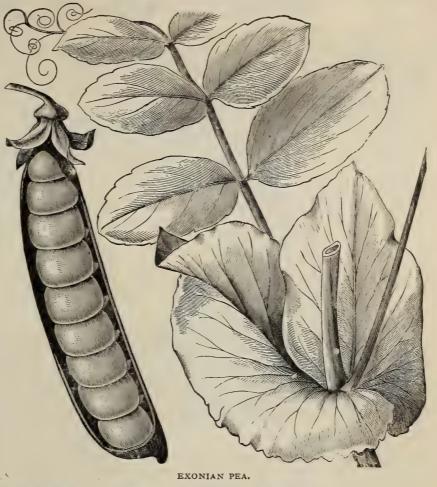
existing variety, but an entirely new sort. The pods, which are produced in great abundance, contain six to eight and many of them nine goodsized peas of a capital dark green color, and of excellent flavor. The Royal Horticultural Society, of England, recognized its merits by awarding it a first-class certificate after testing it against many other varieties. Per pt., 60 cts.

Pepper, Elephant's Trunk.

This new variety is distinguished for its unusually long, glossy, scarlet fruits. They are described as growing from 8 to 11 inches in length and 2 to $2\frac{1}{2}$ inches in breadth, and resembling in shape the trunk of an elephant! They afford the greatest possible contrast to the diminutive variety described on the preceding page. Of mild flavor and valuable for use in the green state. Per pkt., 25 ets.

Tomato, Ponderosa.

This is undoubtedly the largest Tomato in cultivation. Single specimens weighing nearly four pounds have been grown, and specimens weighing two and three pounds are of frequent occurrence. Considering its enormous size it is very free from corrugations. It is of a rich crimson color and the skin is exceedingly firm and smooth. Per packet of about 150 seeds, 10 cts.; ½ oz., 50 cts.; ¼ oz., 75 cts.; ½ oz., \$1; per oz., \$1.50.



THREE SUPERB NEW TOMATOES.

The Therburn Set. (See colored plate.)

After fourteen years of systematic crossing of the best varieties of Tomatoes, scientifically conducted by Mr. E. S. Carman, the distinguished editor of *The Rural New-Yorker*, we are now in a position to offer to the public the three most remarkable Tomatoes ever produced. Mr. Carman assumed that careful and persistent efforts of this kind might show that the improvement of the Tomato was still in its infancy, and these wonderful results of selection and hybridization show that he was right.

THORBURN'S LEMON-BLUSH TOMATO.—This is the nearest approach to a perfect Tomato that has been produced up to this time. The skin and flesh are a bright lemon-yellow, with a faint rose blush or light crimson tint diffused over a part of the surface opposite the stem. Its average size is larger than the "Acme," and in shape somewhat broader than deep—absolutely free of seams, lobes or irregularities. The seeds are notably small and few, the cell walls thick, tender, crystalline and molting—the quality being less acid than that of the red varieties, yet without the insipidity which characterizes the yellow kinds in general. The plant is a vigorous grower, ripening its fruit abundantly in mid-season. Per packet of 20 seeds, 25 cts.

THORBURN'S TERRA-COTTA TOMATO.—This unique cross-bred variety might well be mistaken for a distinct species of Tomato, owing to its peculiarities of color, form, skin, flesh and quality. Its history in brief, is this: In beginning his experiments, the "Peach" was one kind selected by Mr. Carman as the female parent, while the favorites of the day were chosen as the males. Not one of the plants grown from this seed bore Tomatoes which resembled the "Peach" mother; not one developed its characteristic downy skin. The best of these cross-breds were chosen as the female parents the next year, and were crossed with "Ponderosa," "Ignotum," "Stone," etc., and "Terra-Cotta" is one of the results. The color is a pure terra-cotta—quite unlike anything ever seen in a Tomato before. The skin is lustreless and slightly downy, like that of the "Peach." In form it is also unique. It is rarely acutely or deeply lobed or seamed. The surface is slightly wavy and the undulations gradual or obscure. The flesh, too, is peculiarly arranged. Just underneath the flesh of the skin are the pulp cells in which all the seeds are imbedded. The central portion is solid flesh of a mealy, tender consistency and of a mild flavor, peculiarly agreeable to those who prefer raw Tomatoes. The vines are marvels of productiveness, beginning to bear early, and continuing to ripen fruit until frost. Per packet of 20 seeds, 25 cts.

THORBURN'S LONG-KEEPER TOMATO.—This variety is the result of probably the most

THORBURN'S LONG-KEEPER TOMATO.—This variety is the result of probably the most careful selection ever undertaken. Mr. Carman began with the leading sorts popular at that time, putting the most perfect specimens into a dark room, and from the last to decay selecting the seed for next year's sowing. This process he continued for thirteen years, with the result that we now have a Tomato distinguished for perfection of shape, uniformity of size, earliness in ripening, richness of color, with solid flesh of agreeable flavor, and possessing long keeping qualities possessed by no other variety. Per pkt., 10 cts.; per oz., 40 cts.; per ½ lb., \$1.25; per lb., \$4.

VEGETABLE SEEDS.

Please notice that our prices are quoted at the lowest New York figures, and do not include the prepayment of express charges or postage. If it is desired that the charges be prepaid, add 8 cents per pound for mail, or rates as per scale on second cover page for express.

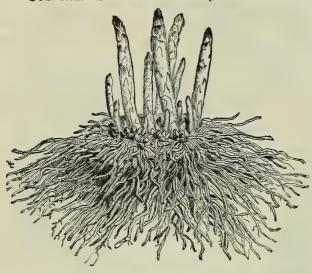
See page 44 of this catalogue for complete assortments of Vegetable Seeds of approved and choice

sorts for from \$5 to \$25.

ASPARAGUS.

Esparrago. Sparael. ASPERGE.

CULTURE.—Sow the seed thinly in rows one foot apart in April or May, and keep down all weeds. To



ASPARAGUS.

secure strong, healthy plants, thin out the seedlings tothree or four inches in the rows, saving only the strongest. The one-year old plants should be set out in spring, in a rich, sandy loam, dug eighteen inches deep, into which has been worked plenty of well-rotted manure. If a stiff clay soil is all that can be had, add plenty of sand and sifted coal-ashes to loosen it up, and also see that it is well underdrained. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow twelve inches in the rows; set the plants at least six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market on a large scale, set out 4 by 11/2

Every fall a good dressing of coarse manure should be applied after the tops have been cut, and in the spring forked in. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Per oz. Per 1/4 lb. Per lb

15 Colossal. The most approved and standard sort. The famous Argenteuil of the . \$0 10 \$0 15 \$0 40 10 20 75

Palmetto. Of southern origin; a very desirable bright green Asparagus.

17 Barr's Mammoth. Has very large, tender stalks of a very light color Roots only

ARTICHOKE.

ARTICHAUT. Alcachofa. Urtichofe.

CULTURE.—Deep, rich, sandy loam, with plenty of well-rotted manure. Sow seeds in April and May, and when large enough transplant into rows three to four feet apart and two feet in the rows. They reach

maturity the second year. Cover with litter when cold weather commences, first tying up the leaves so that they will occupy less space and in spring fork in a dressing of manure. It is an excellent vegetable, and easily grown, thriving in any situation, provided the heads are cut off and used as they get ready. If left to ripen on the plant they will exhaust it, and no more will be produced that season. Heads are unfit for culinary purposes after the flowers expand. These excellent varieties are by no means so largely grown as they deserve to be.

Per oz. Per 1/4 lb. Per lb. 21 French Globe. The standard and best variety; pkt., 10cts. . \$0 30 \$1 00 \$3 50

Green Naples. Large; 1 25 5 00 light-green; pkt.,10c.

Large Paris. A selection of the French Globe; pkt., 10 cts. . 1 25 5 00 50

Jerusalem Artichoke See page 49.



FRENCH ARTICHOKE.

BEANS.



As a farinaceous food for man, the Bean is considered far superior to any other legume, and next in importance to wheat. The modern varieties leave little to be desired; the great care given to their improvement has resulted in many superior sorts.

DWARF OR SNAP BEANS.

Haricots Nains. Frijoles. Krup-Bohnen.

CULTURE.—About the first of May select a warm, dry, sheltered spot; dig and manure slightly; make drills two inches deep and eighteen inches to two feet apart; drop the beans three inches apart in the drills, and cover not more than two inches deep. Hoe well in dry weather to keep down the weeds. Sow every two weeks for a succession.

	F	er at.	Per½pk.	Perpk.	Per bu.
36	Ne Plus Ultra. An extra early sort; green, full flat pods; exceedingly productive; also suitable for forcing	•	/	\$1 50	\$5 00
38	Best of All. Early and superior; round, green, fleshy pods	30	90	1 50	5 00
40	Boston Favorite (Large Goddard). Red-podded Dwarf Horticultural	30	90	1 50	, 5 00
44	Extra-Early Valentine. Early strain of this popular round-pod bean	30	90	1 50	5 00
46	Early Mohawk. Long, flat and straight pods; very hardy	30	90	1 50	5 00
48	Early China. Early, and continues long in bearing	25	75	1 25	4 50
4 9	Pride of Newtown. Light green, flat pods; earliest and most productive variety yet raised	30	90	1 50	5 00
52	Early Yellow Six-Weeks. Resembles the "Mohawk" save in color; flat	90	30	1 ,,00	0 00
02	pods; a popular variety	25	75	1 25	4 50
54	Long Yellow Six-Weeks. Early; the leading market sort; full, flat, green				
	pods; good quality	30	90	1 50	5 00
56	Dwarf Horticultural. Late and productive	30	90	1 50	5 00
60	Low's Champion. A very productive variety, with perfectly stringless, large,				
-	green, flat pods	30	90	1 50	5 00
61	- Wall - John Solly Wilder Folly Tolky, Touristing, Storage Pour	40	1 25	2 25	\$ 00
62	famous Refugee, and is fully two weeks earlier in podding; it is a sure				
	bearer and an immense yielder	30	90	1 50	5 00
64	Refugee or 1,000-to-1. Medium to late; very productive and tender, and largely grown for main crop; round pod	25	75	1 25	4 50
65	# 4 # # # # # # # # # # # # # # # # # #				
	productive	30	90	1 50	5 00
66		90	00	1 50	~ 00
	in the green state; they are far superior to Limas	30	90	1 50	5 00
	DWARF WAX BEANS.				
68	Black Wax. Very early and delicious; round, yellow pods	30	1 00	1 75	6 00
	Black-Eyed Wax. A cross between Golden and Black Wax; very early and	9(7	1 00	1 10	0 00
00	very productive; yellow pods	30	1 00	1 75	6 00
70			4 00		2 00
Be a	full, stringless, and of fine quality	30	1 00	1 75	6 00
	Algerian Black Wax. Very productive; round pods	30	1 00	1 75	6 00
72	Bismarck Black Wax. Resembling in growth and appearance Wardwell Kidney Wax	30	1 00	1 75	6 00
74	Date Wax. Very early; long, yellow, stringless pods	30	1 00	1 75	6 00

DWARF WAX BEANS-CONTINUED.



THORBURN REFUGEE WAX BEAN.

- 76 **Detroit Wax.** Very much like Golden Wax but less liable to rust. Qt., 30 cts.; ½ pk., \$1; pk., \$1.75; bus., \$6.
- Flageolet Red Wax. Flat, yellow, stringless pods of great length and breadth; exceedingly productive. Qt., 35 cts.; $\frac{1}{2}$ pk., \$1.25; pk., \$2; bus., \$7.50.
- 80 Improved Golden Wax. Very early; round, golden pods. Qt., 30 cts.; ½ pk., \$1; pk., \$1.75; bus., \$6.
- 83 Golden-Eyed Wax. Very hardy and prolific, with flat, yellow pods; very early and exceptionally free from rust; a very decirable and poweler cert. sirable and popular sort. Qt., 30 cts.; ½ pk., \$1; pk., \$1.75; bus., \$6.
- 84 **Thorburn Refugee Wax.** A perfect Refugee, with long, round, yellow, wax pods. The earliest wax bean in cultivation. Suitable for early or late sowing, and an immense yielder. A twin brother of No. 62. Qt., 40 cts.; $\frac{1}{2}$ pk., \$1.25; pk., \$2; bus., \$8.
- 86 Wardwell Kidney Wax. Extra early; purely wax pods, long, flat, and remarkably free from rust. Qt., 35 cts.; ½ pk., \$1.25; pk., \$2; bus., \$7.

White Wax. Flat. vellow pods	Perqt. \$0-30	½ pk. \$1 00	Perpk. \$1.75	\$6 00
	# 0 00	# 2 00	#2.0	ψο σο
productive and of good quality	50	1 50	2 50	9 00
WHITE BEANS.				
White Valentine. Round pod	40	1 25	2 00	7 50
Emperor William. Very long pod. Earliest white bean for forcing	35	1 00	1 75	6 00
Extra-Early Maine. A small white kidney-shaped variety; valuable as a				
string, baking or soup bean; very early. The pod is neither round	25	in the	4 05	
	25	75	1 25	4 50
Mexican Tree Bean. A very productive white sort of upright growth	25	75	1 25	4 50
White French Flageolet. Used as a shell bean when in the green state; a				
	30	1 00	1 75	6.00
White Kidney. Excellent, either green or ripe	25	75	1 25	4 00
White Marrow. Good either as a string or shell bean	20	65	1 00	3 50
Dwarf Sieva (Henderson's Bush Lima). Productive. Per gill, 15 cts	50	1 50	2 50	9 00
Burpee Bush Lima. For description, see Novelties				
per packet of 20 beans, 15 cts.; ½ pint, 40 cts.; pint, 75 cts.; quart, \$1.25				,
Thorburn Dwarf Lima (Kumerle's Strain.) For description, see Novelties per pkt. of 18 beans, 20 cts.; ½ pint, 75 cts.; pint, \$1.25; qt., \$2.				
	White Valentine. Round pod Emperor William. Very long pod. Earliest white bean for forcing Extra-Early Maine. A small white kidney-shaped variety; valuable as a string, baking or soup bean; very early. The pod is neither round nor flat Mexican Tree Bean. A very productive white sort of upright growth. White French Flageolet. Used as a shell bean when in the green state; a fine variety White Kidney. Excellent, either green or ripe White Marrow. Good either as a string or shell bean Dwarf Sieva (Henderson's Bush Lima). Productive. Per gill, 15 cts. Burpee Bush Lima. For description, see Novelties per packet of 20 beans, 15 cts.; ½ pint, 40 cts.; pint, 75 cts.; quart, \$1.25 Thorburn Dwarf Lima (Kumerle's Strain.) For description, see Novel-	White Wax. Flat, yellow pods	White Wax. Flat, yellow pods	WHITE BEANS. White Valentine. Round pod

ENGLISH DWARF BEANS.

Haba. Große Bohnen. FEVE DE MARAIS.

CULTURE.—Sow in drills two feet apart, as early in the spring as the ground can be worked (these are as hardy as Peas), in order to get them into pod before the heat of summer. When in pod, break off the top of the plant to check the growth. Plant and hoe same as for Dwarf Beans. A strong soil suits them best. These beans are eaten shelled.

- Early Mazagan. The earliest of this class. Qt., 25 cts.; ½ pk., 75 cts.; pk., \$1.25; bus., \$4.
- 107 **Broad Windsor.** The largest and best of the class of English Dwarf Beans for main crop; good. Qt., 25 cts.; ½ pk., 75 cts.; pk., \$1.25; bush.,\$4.50.
- 109 **Sword Long-Pod.** A size smaller than Windsor. Qt., 25 cts.; ½ pk., 75 cts.; pk., \$1.25; bus., \$4.50.
- 110 **Green Nonpareil.** A green "Long-Pod." Qt., 25 cts.; ½ pk., 75 cts.; pk., \$1.25; bus., \$4.
- 112 Small Horse Bean. Half the size of JAS MTHORBURNA Co Mazagan. Qt., 25 cts.; ½ pk., 75 cts.; pk., \$1.25; bush., \$4.

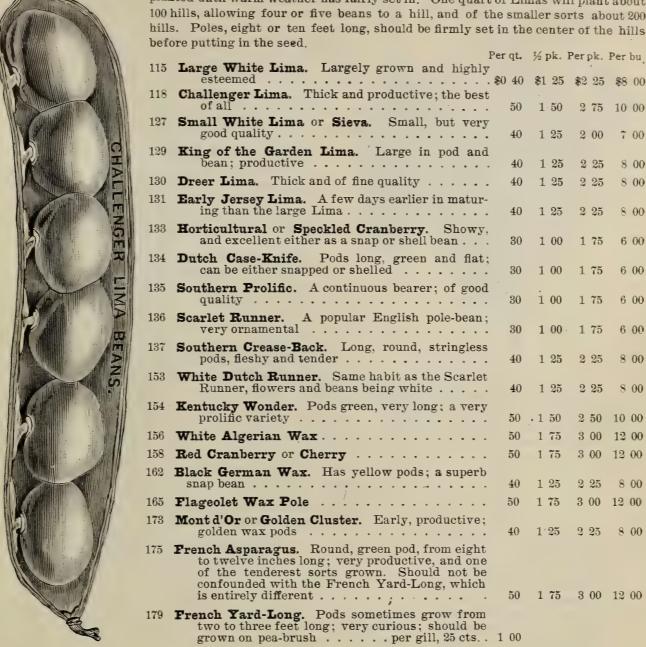


GOLDEN WAX BEAN.

POLE OR RUNNING BEANS.

HARICOTS A RAMES. Frijole de Bejuco. Stangen-Bohnen.

CULTURE. - Sow as the soil becomes warm and dry, from the first part of May (for all except Limas) to the latter part of May, in hills four feet apart each way. Limas should not be planted until warm weather has fairly set in. One quart of Limas will plant about 100 hills, allowing four or five beans to a hill, and of the smaller sorts about 200 hills. Poles, eight or ten feet long, should be firmly set in the center of the hills before putting in the seed.



BORAGE.

Borraja. Borretch. BOURRACHE.

The young leaves of this annual, which smell somewhat like a Cucumber, are used as salad, or boiled like Spinach. Should be sown at intervals, as the leaves are palatable only when young. Sow in the spring, in light soil, and transplant in shallow drills, a foot apart, when of about six weeks' growth.

Per oz. Per 1/4 lb. Per lb. 183 Borage

BURNET.

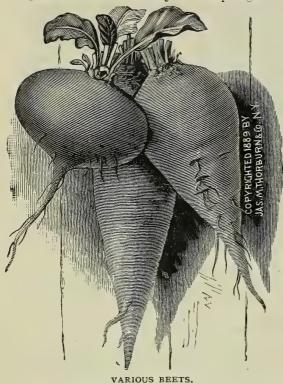
PIMPERNELLE PETITE. Pimpinela. Pimpernell.

The leaves have a warm, piquant taste, and are useful for salads and soups. Sow early in string, half an inch deep, thinly in rows. Per oz. Per ¼ lb. Per lb.

BEET.

Remolacha. Salatrüben. BETTERAVE.

CULTURE.—Sow as early in the spring as the ground can be worked, and every two weeks after for a suc-



cession, up to the first week of July. For general crop sow about the middle of May. The soil should be light, sandy loam, well enriched with stable manure, and plowed and harrowed until very fine. Sow in drills one foot to fifteen inches apart, and when well up, thin from four to six inches.

	The	young Beets pulled out of the rows are ex	cellent	used
	as S	pinach. Per oz. Pe	er 1/1h	Perlh
ABB9 BY	193	Extra-Early Turin. A dwarf- growing round Beet; deep blood color; tender and very early \$0 10	7	
RICHTED ITHORBUF	195	Extra-Early Egyptian. Very early, and of dark blood color; rather flat in shape 10	20	60
S S S S S S S S S S S S S S S S S S S	197	Extra-Early Eclipse. Very early; round-rooted and dark-red 10	20	60
	200	Lentz Extra - Early Turnip. A large, small-top, round Beet; fine strain	25	75
	206	Dewing Early. Of fine form and flavor, and good for market 10	20	60
	208	Bastian. A very early light-colored turnip Beet	20	60
The state of the s	212	Early Bassano. Early, flat, light color	20	60
VARIOUS BEETS.	213	Edmand Blood Turnip. A market- gardener's strain of great regu-		
larity in shape; deep blood skin, and ve	ry da	ark flesh of best quality 10	20	60
214 Early Blood Turnip. Dark red, and of fir			20	60
220 Early Yellow Turnip. Flesh yellow and			25	75
224 Half-Long Blood. Fine dark strain			25	75
226 Black Queen. Very dark, half-long root,			50	1 50

FOLIAGE BEETS.

Kinds of which the Leaves only are used as Spinach; also very Ornamental.

			eī ¼ lb. Per lb.
240	Ne Plus Ultra. Dark foliage	. \$0 15	\$0 30 \$1 00
242	Victoria. Metallic red	. 15	35 1 25
243	Dell. Black-leaved	. / 15	30 1 00
247	Scarlet-Ribbed Chilian.	(15	35 1 25
248			35 1 25
249	Crimson-Veined Brazilian These are grown exclusively for their handsome		30 1 00
250	Golden-Veined Brazilian. foliage	15	30 1 00
252	Scarlet-Veined Brazilian	15	30 1 00
253	Dracæna-Leaved	15	40 1 50

BEETS-MANGEL-WURZEL, SUGAR, ETC,

Runfelrüben.

CULTURE.—As all Mangels require a deep soil in order to grow well, plow and subsoil at least a foot to eighteen inches, and apply plenty of rich stable or Thorburn's Complete Manure. Sow in May or June, in rows eighteen inches to two feet apart, and thin to eight inches in the rows. Young plants may be transplanted to fill up vacancies. Sow in addition, when the plants are three to four inches high, at the rate of 200 lbs. Complete Manure, 200 lbs. bone flour, and 400 lbs. salt, per acre. As soon as frost occurs, dig the crop. But in order to be well preserved for gradual consumption during the winter, Mangel-Wurzel should be heaped Brazilian ornamental-leaved Beet.



20

10

60

MIDDLETOWN, N. J . M. THORBURN & Co.:—Having planted your seeds for the last two years, I find them truer to promise than those of any r dealer I have tried.

[REV] Chas. D. Buck. other dealer I have tried.

2 200

BEETS-MANGEL-WURZEL, SUGAR, ETC .- CONTINUED.

to a height of perhaps six feet, on a dry, sloping situation; cover at first with a piece of canvas, and as the cold increases this should be replaced by about six inches of either salt hay, straw, sea-weed, or even corn-stalks. Lest this covering be displaced by the wind, a light layer of earth is necessary. So soon as this surface soil becomes frozen, about six or eight inches more of earth should be placed over the entire heap. By following up this gradual process of covering, all danger of heating will be obviated, and the roots will keep in perfect order. Sow from four to five pounds to the acre. Prices for large quantities on application. Per oz. ¼ lb. Per lb. 260 Long Red Mangel-Wurzel. A good main crop variety \$0 10 \$0 15 \$0 30 Mammoth Long Red Mangel-Wurzel. Very large selected strain 10 15 40 263 Long Yellow Mangel-Wurzel. A good 40 Mammoth Golden Mangel-Wurzel. Very large, selected strain 10 20 50 Yellow Ovoid Mangel-Wurzel. Of distinctshape; one of the most productive 10 15 30 268 Giant Yellow Intermediate. Very 15 40 Golden Tankard Mangel - Wurzel. Bright yellow; handsome and sweet, 15 40 274 Red Globe Mangel-Wurzel. Similar to the Yellow Globe; productive 15 40 276 Yellow Globe Mangel-Wurzel. Large and productive; keeps well 10 30 15 278 Orange Globe. Similar to No. 276, but of 10 15 30 286 Lane's Sugar. For sugar-making or stock-feeding 290 White Sugar Beet. Grows to a large size, and is useful for making sugar, MAMMOTH LONG RED MANGEL. as well as for stock-feeding 30 Vilmorin Improved Sugar. A much improved strain of the preceding; very 40 15 294

BROCCOLI.

Broccoli. Broculi. Spargelfohl.

CULTURE.—Sow early sorts as soon as the ground can be worked in the spring, in shallow drills, drawn three or four inches apart. Plant out two feet apart each way when the plants are about four inches high. Cultivate the same as Cabbage, in rich soil. Use the same remedies for insect attacks as are recommended for Cabbage.

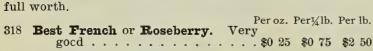
The following are sorts best adapted to this climate, and the only ones which succeed generally; they are exellent, and deserve much wider culture than is usual in this country. We recommend No. 307 as the most certain to give satisfactory results.

		Per oz. Per ¼ lb. Per ll	
300	Early White	. \$0 30 \$0 80 \$3 0	O STATE OF THE OWNER OWNER OF THE OWNER OWN
	Early Purple		
305	Early Walcheren	. 50 1 50 6 0	
307	Early Purple Cape. The standard sort	. 40 1 00 4 0	0
311	Snow's White	. 50 1 50 6 0	0
312	White Sprouting	. 30 80 3 0	0
315	Sulphur-colored	. 30 80 30	0
316	Chapel's Cream	. 30 80 3 0	BROCCOLI.

BRUSSELS SPROUTS.

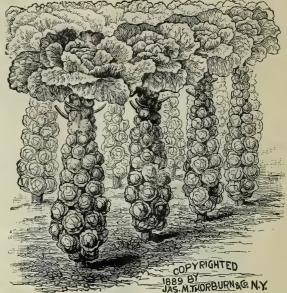
CHOU DE BRUXELLES. Berza de Brusels. Rosenfohl.

CULTURE.—Sow in May, in the same manner as Cauliflower, and transplant in July, one foot apart in the rows, which should be one and one-half feet apart. In gardens, both large and small, Brussels Sprouts are, without exception, the very best winter vegetable that can be grown. Not the least valuable point connected with the Brussels Sprouts is that it is as hardy as the common Curled Greens. The common Cabbage is hardy enough in a young state, but when full grown and hearted, frost soon destroys the largest heads, which rot and fall to pieces. Not so the Brussels Sprouts; being small and hard, it is not in the least affected by frost. The real Sprout is not much larger than a marble, and as firm and hard almost as the stalk itself. These are the sorts which cooks prefer. They strip off the outer covering, cook them whole, and serve them up artistically in that fashion. When cooked through and no more, such Sprouts melt in the mouth, like the tenderest Cauliflower, and are equally good. If more widely known, the Brussels Sprouts would be as popular as they are valuable; few people appreciate them at their



best and surest strain . 30 80 320 Improved Dwarf. Compact heads of fine quality . . .

Improved Half-Dwarf. The very



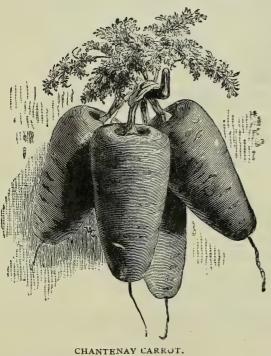
BRUSSELS SPROUTS.

Per oz. Per¼lb. Per lb. . \$0 25 \$0 75 \$2 50

CARROT.

CAROTTE. Zanahoria. Möhren.

CULTURE.—Sow No. 321 as early as the ground can be worked; or, for late crop, until latter part of July.



For main crop, sow from the middle of May to the first of July. Thin out early crop to five inches in row, main crop six to

		n inches; the rows ten inches apart for ear		
	teen i	for main crop. Thoe often and deeply between	en the	rows.
	Soil,	light sandy loam, richly manured and deeply	dug. S	ow at
	the ra	ate of two pounds to the acre.		
	320a '	Early Round Parisian. Small and	Per¼lb.	Per lb.
	5.00a .	very tender; for frames or open		
		ground	\$0 30	\$1 00
	321	Early Forcing. Tender and fine; best		
		for early and late crops and frames 15	30	1 00
	322	French Bellot. In size between 321		
		and 324. Very early and tender. A valuable strain for forcing or for		
		out-doors. (Crop failed.)		
	323	Half-Short Stump-Rooted, Guer-		
		ande Strain. Very thick and		4 00
		short	30	1 00
	324	Early Scarlet Horn. Very thick	80	1 00
- The Name of the state of the	000	roots	50	1 00
	326	known strain; productive, early,		
		and a valuable standard sort 15	30	1 00
	328	James Intermediate. A very pro-		
		ductive half-long pointed strain,	20	1 00
• • • • • • • • • • • • • • • • • • • •		quite popular in some sections 15	30	1 00
CHANTENAY CARROT.	330	Half-Long Stump-Rooted. An excellent sort, of good quality 15	30	1 00
000 11 10 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1			30	1 00
332 Half-Long Stump-Rooted, Nantes St	rain.	A popular market sort		1 00
334 Half-Long Stump-Rooted, Chanten	lay S	15	30	1 00
338 Half-Long Stump-Rooted, Carentan.	Core	eless; flesh red, of fine quality 15	35	1 25
340 Half-Long Stump-Rooted, Luc. Use	eful ma	ain crop sort; early and productive 15	30	1 00
342 Half-Long Danvers. Thick; of good	quality	y and exceedingly productive	30	.1 00
344 Long Orange. Best for stock-feeding			: 30	1 00
346 Altringham. Long scarlet; productiv	е		(. 30	1 00
348 Long White. Very large; for stock			25	75
OTO TOTAL STATE OF THE BOY TO BOOM I .				

CABBAGE.

CHOU. Berza de repollo. Kohl.

CULTURE.—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an

abundance of stable or Thorburn's Complete manure, excellent crops are sure to be grown For early spring sow in fall; not too early, or the plants are liable to bolt in the spring instead of heading. In a month the plants will be fit to transplant to coldframes, where they are wintered, taking care, in planting, to set the young plants down to the first leaves. Trans. plant in spring as soon as the ground can be worked, setting the plants two feet apart one way and from twelve to eighteen inches the other, according to the variety. If it is desirable to economize space, Lettuce or Radish may be sown between the rows, as they will be out of the way before the Cabbage needs the room. For late or winter crops the seed is sown in May, and the plants set out in July In this case they are set in rows two by three feet, so as to work them with a horse and cultivator. To destroy the green worm that is so



EARLY JERSEY WAKEFIELD.

destructive to the leaves and heads of Cabbage and Cauliflower, an experienced grower says: "Take one ounce of saltpetre and dissolve it in twelve quarts of water; then take a short-handed whisk broom, dip it in the solution and sprinkle the plants well. One application is sufficient unless the stuff is washed off by heavy rains. The liquid, being perfectly clear, never colors the Cauliflower or Cabbage heads." To prevent the turnip flea attacking the young plants, sift fine air-slaked lime or tobacco dust over them as soon as they appear above the ground.

Per oz. Per 1/1b. Per lb.

352	Small Early White French. A very early flat-head variety of very fine quality	50 20	\$0 60	\$2 00
353	Etampes. A fine extra-early small French sort, with pointed heads	20	50	1 50
354	Early York. The standard English sort	20	50	1 50
358	Early Jersey Wakefield. Well known, and most valuable for early	30	80	3 00
360	Early Winnigstadt. A standard second-early variety	20	50	1 50
362	Early Dwarf Savoy. The earliest Savoy variety; distinct and good	20	50	1 50
364	Early Ulm Savoy. Small, round, deep green heads; very early	20	50	1 50
368	Stein Early Flat Dutch. A remarkably fine strain; a sure header, the heads weighing from ten to twelve pounds. Most valuable for market	25	75	2 50
370	Improved Early Summer. A superior second-early sort; produces large and solid	20	00	0.00
372	heads of fine quality	30	80	3 00
01~	size quickly and surely. The true sure-header	25	75	2 50
373	Henderson Succession. An excellent second-early or late sort, on the style of All-	~~	Mark Control	
374	Seasons	25 25	75 75	$\begin{array}{ccc} 2 & 50 \\ 2 & 50 \end{array}$
376	Fottler Brunswick. Good solid heads, either for second-early or late	25	- 60	2 00
		25	75	2 50
378	Large Late Drumhead. A standard winter Cabbage for main crop	25 25	75	2 50
380	Large Late Flat Dutch. Also a valuable main-crop sort for market	25	75	2 50
382	Vandergaw Quick-Growing Flat Dutch. A sure-heading sort	25	(9	2 30
384	Thorburn Market-Gardener's Private Stock Flat Dutch. Fine strain of the immense winter Cabbage grown on Long Island for market	35	1 00	3 50
386	Drumhead Savoy. A superior sort for family use in winter and spring	25	75	2 50
387	Thorburn New Stock Drumhead Savoy. Very fine strain per packet, 10 cts.	40	1 25	4 00
388	Green-Glazed. Glossy green; suitable for hot climates	20	60	2 00
390	Red Dutch. A useful sort for pickling	25	75	2 50
392	Thorburn Improved Red Stone-Head. Very large, solid, red heads; the finest			
_	strain of Red Cabbage	40	1 25	4 00
394	Chinese Cabbage (Pe-Tsai)	40	1 25	4 00

CARDOON.

CARDOON. Cardo. Cardon.

CULTURE.—Sow early in spring, in rows, where they are to stand, and thin them to one foot apart. When full size, bind the plants together with straw or matting, and earth up like Celery to blanch. The stems of the leaves are used for salads, soups and stews.

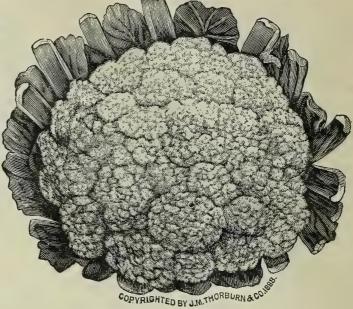
			rei oz.
480	Large Solid.	Grows about four feet high; leaves nearly free from spines	 . \$0 50

CAULIFLOWER.

CHOU-FLEUR. Coliflor. Blumenfohl.

CULTURE.—This is the same as for Cabbage, except that extra manure and plenty of water will pay upon

this. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay or straw, it would keep the soil moist, and the plants would not suffer from drought. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage. To destroy the cauliflower-maggot, it is recommended to take one ounce of sulphuret of potassium and dissolve it in one gallon of water. Heat the liquid to about 100 degrees, take a large spoon, or something that will hold a 100th part of a gallon, and pour the liquid against the stalk of the plant just above the ground.



THORBURN GILT-EDGE CAULIFLOWER.

Per oz. Per ¼lb. Per lb.

482 Extra - Early Dwarf

Erfurt. Short stem; very fine.pkt., 50 cts. . \$6 00

483 Large Early Dwarf
Erfurt. Finest strain
. . . per pkt., 25 cts. . 3 00 \$10 00 \$40 00

85 **Ordinary Early Erfurt.**. . . per.pkt., 10 cts. . . . 75 2 50 10 00

487 Thorburn Early Snowball. One of the best for forcing or open ground; small, but a

Per oz. Per 1/1b. Per lb. for forcing or open ground; small, but a sure header per pkt., 25 cts. . \$3 00 \$10 00 \$40 00 Thorburn Gilt-Edge. Large, heavy sort; undoubtedly the best and surest of all 488 per pkt., 25 cts. . 3 00 40 00 10 00 489 Extra-Early Paris. Heads of medium size; first-class per pkt., 10 cts. . 75 2 50 10 00 490 Italian Taranto. On the style of Autumn Giant; very solid 1 25 5 00 492 Lenormand Short-Stem. Has very large heads; white and firm . per pkt., 10 cts. . 9 00 494 Large Algiers. Popular market-gardeners' late sort, of enormous size "10 cts... 2 25 8 00 497 40 1 00 4 00 Thorburn Nonpareil. For late planting per pkt., 10 cts. . **4**99 75 2 50 9 00 40 1 25 5 00 Stadtholder. Intermediate in season; large and hardy 40 502 40 1 25 5 00 1 25 40 5 00

INTERLACHEN, FLA., Nov. 19, 1892.

MESSRS. J. M. THORBURN & Co.

Gentlemen:—Thanks for the specimen of Thorburn's Gilt-Edge Cauliflower sent us. It arrived in first-class condition, showing its excellent shipping qualities. It is unsurpassed for quality and compactness of growth. You can truthfully claim that it is the beststrain in the world. It does much better than the Early Snowball in the southern states. Yours truly,

H. G. HASTINGS & Co.

CELERY.

CELERI. Apio. Sellerie.

CULTURE.—Sow the seed in a light, rich, dry border as early as the ground can be worked, in drills eight or ten inches apart, and cover the seeds about a quarter of an inch deep, rolling or treading them in if the ground be dry. When fairly out of the seed-leaf, they may be transplanted to another bed, or they may be thinned out to six or eight inches apart, and let grow until wanted to plant out in beds or trenches. The beds should be kept well weeded, and an occasional soaking with water in dry weather will do the plants good. Early in July at the north, a month or six weeks later in the southern states, is the proper time to set the plants out in beds or trenches. Press the soil firmly against the roots. In the garden the better way is to set the plants in shallow trenches—we say shallow, for it is obviously a bad plan to remove all the good soil (as must be done in a deep trench) and put the plants in that which is poor. The plants may be set in a single row in a narrow trench, or the trench may be made into a bed wide enough to hold two, three or four rows, and in this case the plants are in a compact form to be covered for the winter where they grow. This will save much labor where there is no root-cellar for storage, as often happens to be the case. When grown in beds in this way, the rows should be one foot apart, and the plants about eight inches apart in the rows. A bed four feet wide will take four rows of plants, leaving six inches space on the outside of the first and last rows. The bed should be made very rich with thoroughly decomposed manure. The plants will need to be earthed up two or three times; and in doing this, care should be taken not to let the earth get into the

CELERY-CONTINUED.

heart of the plant. In field culture the plants are set on the surface in rows four feet apart when the Celery

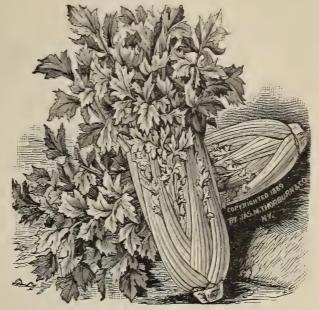
is to be earthed up in the field for early use, and two feet apart when the plants are to be taken up and blanched in the cellar for winter use. The plants are set six inches apart in rows. If not grown in beds, the best way to store is to dig trenches in a well-drained spot in the open ground, one foot wide, and of a depth a few inches less than the height of the Celery. The plants are then lifted and set close together until the whole quantity is stored. The edges of the trench should be made sloping from the tops of the plants. When severe cold weather comes on, cover gradually with leaves, hay, or straw, and place boards on top. In such a trench the stalks will blanch perfectly, and may be taken out any time during winter for use or sale as required.

The turnip-rooted, or "Knob" Celery, needs no earthing up, and may be planted in rows one foot apart.

Per oz. Per ¼lb. Per lb.

514 Giant Pascal. An easily
blanched and fine-keeping
large sort, of excellent
flavor; superior for late use per pkt., 10 c. . \$0 25 \$0 75 \$2 50

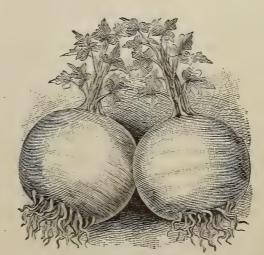
516 Large-Ribbed Kalamazoo. A good half-dwarf white solid



	Celery 20 50 150	Peroz	Per¼lb.	Per lb.
518	Curled-Leaf White (so-called Bouquet). Ornamental foliage	. \$0 25	\$ 0 75	\$2 50
520	Improved White Plume. Naturally white or light foliage; requires but little banking up to blanch; very early, and extensively grown for market. per pkt., 10 cts		1 00	4 00
522	Perfection Heartwell. The finest and largest of the winter varieties, either for the family or market-garden. The heart is golden yellow, and it is of superior to the superior will be a superior to the supe	r	20	2.00
200	quality		80	3 00
525	The Schumacher. Immense size; solid and crisp; firm golden-yellow heart; a fin keeper per pkt., 10 cts.		80	3 00
524	Golden Dwarf. This sort is superseded by Perfection Heartwell	. 20	60	2 00
528	Boston Dwarf. Rather dwarf; has no particular merit	. 30	80	3 00
532	Leviathan. Very large; white, solid			
534	Crawford Half-Dwarf. Of vigorous growth and excellent flavor	. 25	. 75	2 50
5 38	Golden Self-Blanching. A grand, solid variety, on the style of the White Plume	,		
	except that it is golden yellow where the Plume is white per pkt., 10 cts.	. 50	1 50	5 00
540	Sandringham Dwarf White. Small white solid	. 20	50	1 50
542	Covent Garden Rose. Of good flavor, as the pink varieties generally are	. 30	80	3 00
545	Clayworth Prize Pink. Popular English sort	. 40	1 00	4 00
546	Celeriac, or Turnip-Rooted. Has edible roots, which are used for soups and stew	s 20	60	2 00
548	"Thorburn Giant. The best of the class; very large and fine roots of su		00	0.00
	perior quality		80	
550	"Apple. Has small foliage and globular, smooth roots; small	. 20	60	2 00



CLAYWORTH PRIZE PINK CELERY.



THORBURN GIANT CELERIAC.

CHERVIL.

CERFEUIL. Perifollo. Bensenlauch.

CULTURE.—Cultivate and use like Parsley. Sow at any time in the spring, in shallow drills, one foot apart. The seed of the Tuberous Chervil should be sown in August or September, and treated like the Carrot.

Per oz. Per 1/2 lb. Per lb.

552 Curled. The leaves of this are
used for flavoring soups and
stews, and for garnishing,
same as Parsley \$0 15 \$0 40 \$1 50

553 **Tuberous.** A variety which has edible roots 20 75 2 50



CURLED CHERVIL.

75



CHICORY.

COLLARDS.

CHOU CABU. Cabu. Blatterfohl.

CULTURE.—Sow seed, as for Cabbage, in June, July and August, for succession. Transplant when one month old, in rows a foot apart each way, and hoe frequently.

CORN-SALAD OR FETTICUS.

557 Large-Rooted Magdeburg. Roots are the Chicory of commerce. .

MACHE. Macha o Valerianilla. Stedialat.

CULTURE.—Sow during August, or early in September, in drills a quarter of an inch deep and six inches apart. If the weather is dry when the seed is sown, tread it in lightly to insure germination. Keep down weeds with hoe. Just before the winter, cover thinly with straw or leaves.

561	Large-Seeded.		 	 .,	 ,									· .		. \$0	oz.	\$0 25	\$0	75
562	Small-Seeded			 				ν,	 								10	25		75
	Green Cabbaging																			
565	Lettuce-Leaved.								 								15	50	1	50

CRESS.

CRESSON. Berro o Mastuerzo. Kreffe.

Culture—Sow Nos. 569 and 571 thickly, in shallow drills, every two or three weeks. No. 569 should be cut often, and it will continue to grow. It is useful not only for salad, but for the breakfast table and for garnishing. Nos. 575 and 578 should be sown in damp soil; or if a stream of water can be utilized, they would be much finer. They will also thrive well in damp hotbeds. Rightly managed, their culture is very profitable. To obtain early salad, it is a good plan to sow with water-cress seed a strip four inches wide on the outer margin of a hotbed, inside the frame (where it is always cool). This will be found a satisfactory method of obtaining it early.

569	Curled or Pepper Grass		. \$0	oz. 10	\$0 15	\$0 40
	Broad-Leaved			10		50
57 3	Broad-Leaved Winter			10	25	75
575	Erfurt Sweet Water-Cre	S	3.	75		
578	True Water Cress			50	1.50	5.00



CORN, SWEET OR SUGAR.

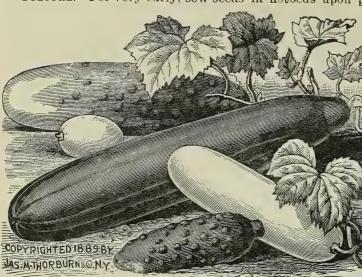
Mais. Maiz. Mais.

CULTURE -- Plant in hills three feet apart each way, and five or six kernels in a hill. Hoe often and draw soil up to the stems; break off side shoots. Make the ground rich with well-rotted manure. Sown in drills, a greater yield from a given surface will be obtained. The best fertilizer is Thorburn's Complete Manure. By sowing successive lots, and properly selected varieties, the supply of Sweet Corn can be kept up until hard frosts kill the plants. EXTRA EARLY, ½pk. pk. ear. qt. bn. 580 Early Cory. A very early variety, with good-sized ears and large grains. This is excellent for market \$0 05 \$0 20 \$0 70 \$1 25 \$4 00 581 Marblehead. One of earliest; dwarf, with short, thick ears; of good quality for an early sort 70 1 25 4 00 COPYRIGHTED 1889 582 Minnesota. Nearly as early as Marble JAS M.THORBURN head: of dwarf & Co. N.Y. 70 1 25 4 00 20 growth ... 583 Perry Hybrid. Very early and of large size; most valuable for market . 20 70 1 25 4 00 5 Stabler Pedigree. An excellent market sort noted for its earliness and great sweetness..... 70 1 25 4 00 70 1 25 4 00 Narragansett. Small ears; grains red when fully ripened 20 590 Extra-Early Adams. Not a sugar corn, but largely grown for early use. 20 70 1 25 4 00 SECOND EARLY, OR INTERMEDIATE. 70 1 25 4 00 591 Early Golden Yellow. A very sweet corn, with golden-yellow kernels . 20 5 593 Shaker Early. Very large white grain and quite early 70 1 25 4 00 599 Crosby. Matures after the Minnesota; fair-sized ears of good quality . . . 70 1 25 4 00 70 1 25 4 00 608 Pee and Kay. Ears large and thick; a desirable variety 20 610 Potter Excelsior. Good size, and a week earlier than Large Excelsior. 70 1 25 4 00 20 611 Moore Concord. Of strong growth; ears large and well filled 5 20 70 1 25 4 00 Amber Cream. Of strong growth, producing long and handsome ears . . 70 1 25 4 00 617 Early Adams. Not a sugar corn, but grown extensively all over the 20 60 1 00 3 50 GENERAL CROP. 618 Large Excelsior. Has large ears and is moderately early 70 1 25 4 00 5 20 618a Large Eight-Rowed. Very productive, and of superior richness 20 70 1 25 4 00 619 Asylum. Thick, twelve-rowed............ 5 70 1 25 4 00 20 70 1 25 4 00 622 Hickox Improved. Handsome ears, very white and of rich flavor . . 20 70 1 25 4 00 624 Roslyn Hybrid. Large-growing variety of very fine quality 70 1 25 4 00 Stowell Evergreen. Remains green a long time, and is highly prized; one 70 1 25 4 00 70 1 25 4 00 20 LATE. 630 Black Mexican. Very sweet, and of superior flavor; grains black 20 70 1 25 4 00 1 00 1 50 5 00 30 634 Ne Plus Ultra. Small, but one of the sweetest sorts grown 5 640 Late Mammoth. Rank in growth; large ears, rich and sweet õ 20 70 1 25 4 00 70 1 25 4 00 644 Egyptian. Large and of superior quality; largely used for canning. . . . Country Gentleman. Same as Ne Plus Ultra, but with large ears; of 35 1 00 1 75 6 00 delicious quality . . 650 Sweet Fodder Corn. For soiling and ensilage....... 2 50 For Field Corn, see Cereals, page 50.

CUCUMBER.

CONCOMBRE. Pepino. Burfe.

CULTURE. - For very early, sow seeds in hotbeds upon pieces of sod, or in small pots, and they can be



CUCUMBER.

664 Early Russian. Very early, short; is a valuable variety for sma

readily transplanted with a gain of about six weeks before they can be sown in the open ground. Plant out in rich soil when danger of frost is over, or they may be protected by hand glasses, or even by a paper held down at the corners with a handful of earth. For general crops, sow in the open ground as soon as the weather is settled and warm, and again every two weeks for a succession. For pickles, sow from the middle of June to the first week in July. Sod-land, turned over in the fall, is the best for them. Plant in hills four feet apart, putting a shovelful of well-rotted manure in each hill Per oz. Per 1/1b. Per lb.

663 Thorburn Everbearing. Small-sized; very early and enormously productive, and valuable as a green

	рı	CF	ζ16	r			٠				₩ U	10	\$U	30	\$1 00
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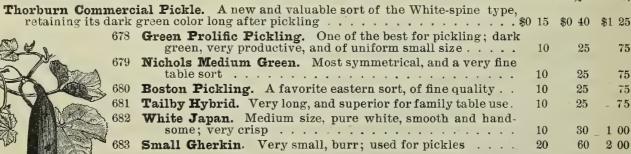
	it is often much in demand	25	75
			. 10
665	Early Seedling. Cross between Russian and Green Prolific; a very early pickler . 10	25	75
666	Large Netted Russian. Very early, large; dark, netted skin and white flesh 10	25	75
667	Early Short Green. Good for pickling; productive	25	75
668	Early Green Cluster. Fruit small and in clusters; very prolific	. 25	75
	Per oz. Per 1/1b. Per 1b.	7728	

10

669	Early White-Spined. Early, and good for				
	pickling or table use	0 10	\$0 25	\$0 75	
670	Extra-Long White-Spined. Very fine				
	shape for market	10	25	75	
671	Improved White-Spined. Well-flavored				
	and of medium size	10	25	75	
672	Evergreen Early White-Spined. Very				
	early and prolific; retains its fine deep				
	green color in all stages of growth	10	25	75	
673	Peerless. A fine strain of White-Spined .	10	25	75	
674	Long Green. Long and crisp; a popular				
	and reliable variety for pickles	10	25	75	
675	Long Green Turkey. Fruit very long and				
	rather slim	10	30	1 00	
676	Giant Pera. Very long, and one of the best				
	0 . 4 11.	4.0	00	.4 00	



Per oz. Per 1/4 lb. Per lb. . \$0 15 \$0 40 \$1 25

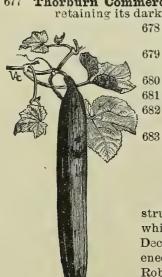


30 1 00

ENGLISH CUCUMBERS FOR FRAMES.

Concombre (especes Anglaise) pour Couches.

CULTURE.—The following are for growing in hotbeds, or houses particularly constructed for forcing, so that a supply can be furnished during the winter months, at which time the prices are very remunerative. Sow seeds in October, November or December, according to the time they are wanted, in small pots, in fibrous loam, lightened and enriched with old manure, taking care to give plenty of air and water. Robustness of habit is especially valuable in winter, and therefore the soil should not be too light. Plunge the pots in a frame near the glass, where there is a little TELEGRAPH CUCUMBER. bottom heat, and keep them covered with a sheet of brown paper until the seeds



for table use

CUCUMBERS-CONTINUED.

germinate. Afterwards uncover and ventilate to insure sturdiness of habit. More seeds should be planted than the number of plants required, as some may fail to grow, and others that germinate may be weaklings. None but strong plants should be employed. It will be necessary to fertilize the pistillate flowers with the staminate, in order to render the vines productive, as, owing to the absence of insects, they will not produce a crop under glass the same as in the open ground.

Packets contain from five to fifteen seeds each, according to sort.

	Per pkt.			Per pkt.
699	Prescott Wonder. Rapid growing and	704	Noa's Forcing. Very productive	. \$0 25
	very prolific; long, dark green fruit, produced in clusters \$0 25		Improved Sion House. A popular a valuable variety	nd
700	Duke of Edinburgh. Very large and long,		Marquis of Lorne	. 25
	dull green; quite smooth 25	708	Goliath. Very prolific	. 25
701	Giant of Arnstadt. Good bearer 25			
702	Blue Gown. Handsome black-spined sort. 25		Telegraph. Free-bearing, long and etensively grown; handsome	. 25
703	Swan's-Neck	712	Cuthill's Black-Spine	. 25



DANDELION.

Pissenlit. Amargon. Pardeblum.

Culture.—The Dandelion is a hardy, perennial plant, and one of the most desirable early spring salads. Sow in early spring, in drills half an inch deep and eighteen inches apart; thin out the plants to twelve inches. Keep clear of weeds during the summer, and the ensuing spring the leaves will be fit to cut. They are best, however, when blanched, which makes them tender and destroys to some extent their bitter taste without in any way impairing the qualities which make them desirable as greens. The blanching may be done by placing a couple of boards over the rows, thus: A. This excludes the light and improves the greens, rendering them far superior to those growing wild in the grass without cultivation, which are almost sure to be bitter, and are often unsightly and tough.

				_		/4		
737	French Garden		-		\$0 20	\$0 5	50	\$1 50
738	Improved Broad-Leaved		-		30	1 (00	3 50
739	Improved Thick-Leaved	-	-		40	1 2	25	4 50

Per oz. Per 1/ lb. Per lb.

EGG-PLANT.

Aubergine. Berengena. Eierpflanze.

CULTURE.—Sow in hotbeds, very early in spring, and transplant when two inches high into a second bed or into small pots. If that is not done, thin to four inches

or into small pots. If that is not done, thin to four inches apart. Do not plant out till the weather becomes perfectly settled and warm. Cool nights or wet weather will check them. Keep some back in frames for a second planting, in case of weather changing unexpectedly. Keep plants watered for a few days if the sun is hot when put out, Set out plants three feet by two.

Per oz. Per 1/2 lb. Per lb. 740 Early Dwarf Purple. Dwarf, very early; small-sized, ovoid fruit of good quality \$0 25 \$0 75 \$2 50 741 Long Purple. Of distinct shape and fine quality; preferred by some . . . 2 00 60 742 Round Purple. Medium, pear-shaped, pale purple; good 2 50 quality 743 Improved New York Purple.

The best; large, oval in shape, and of deep purple color; grown very much more extensively than any other sort, both for private use 5 00 and market . 1 25 Black Pekin. Fruit blackishpurple; has dark foliage 40 1 00 4 00 Scarlet Chinese. Small and or-745 1 00 4 00 40 746 Round White. Small and orna-4 00 1 00 mental

40

40

1 00

1 00

4 00

4 00

Long White. Small and orna-

Striped. Fruit is striped purple

and white

mental



EGG-PLANT.

ENDIVE.

CHICOREE. Escarola o Endivia. Endiven.

CULTURE. - Sow in June, July and August; cover lightly. When up, thin out to eight inches apart, and -



water well afterward, if dry. When the leaves are six or eight inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry, or they will rot. At the approach of winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry, and have plenty of air, or they will rot.

750 G	Per oz. Per ¼ lb. Per lb. reen Curled Win- ter. The standard sort for fall and
751 W	winter crop \$0 20 \$0 50 \$1 50 White Curled. For early use, for which
GREEN CURLED ENDIVE.	it is desirable 20 50 150 aciniated. Fine crisp French sort for fall and winter 20 50 150
753 Broad-Leaved (Escarolle). A sweet variety for fall and wint 754 Large Green Curled (de Ruffec). Broad ribs; fine for fall and 755 Imperial Curled . Also a broad-ribbed sort; very fine light gree	d winter 20 50 150 d winter 20 60 2 00

KALE OR BORECOLE.

CHOU VERT FRISE. Col. Blätterfohl.

CULTURE.—Nos. 759 to 773 are cultivated and grow exactly like Cabbage. No. 777 sow in September for early greens. Sow No. 780 early in the spring in a hotbed, and when from one to two inches high transplant into a bed or border that has been highly manured and deeply dug. The plants should stand two feet apart, in rows three feet apart. The soil should be kept mellow and free from weeds. Cover with litter or leaves during the winter. Plants started and grown in this way should be fit to blanch the following spring. The seed may also be sown early, in the open border, and transplanted in rows (as directed above), as soon as out of the seed-leaf; but they will need to be a year older than the hotbed plants before being fit to blanch. Sea-Kale is not fit to eat till it has been blanched, either under large pots, or by banking up with sand. The midribs are the parts eaten. They are cooked like Asparagus, and usually served with drawn butter.

	Per oz. Per y	
759	Curled Dwarf Green Scotch. Very dwarf and spreading; best strain \$0 10 \$0	30 \$1 00
760	" Tall Green Scotch. A taller growth of the above	30 1 00
768	" Dwarf Brown. Very hardy	50 1 50
769	" Tall Brown. Very hardy	50 1 50
770	" Dwarf Green Erfurt. Very desirable	50 1 50
771	"Mosbach Winter. Dwarf and very hardy	50 1 50
773	" Striped and Variegated. For garnishing	$^{-}60$ 2 00
777	"Siberian, Thorburn Improved. Uniformly dwarf, green curled; hardy 10	25 75
780	Sea-Kale. Very fine; resembles Celery in appearance	75 2 50
783	Pe-tsai. (The Chinese Cabbage). Grows like a Cos Lettuce; delicate cooked as Spin-	
	ach or raw for salad; best as a fall crop	25 4 00

KOHLRABI OR TURNIP-ROOTED CABBAGE.

CHOU-RAVE. Colinabo. Kohlrabi.

CULTURE.—This is an excellent vegetable, and should be grown in every garden. Sow in spring, in rows eighteen inches apart, afterward thinning the plants to eight or ten inches. If the weather is suitable the thinnings may be planted, but it is considered difficult to transplant. Keep the weeds down, and when the thickened stem above ground is two or three inches through, they are fit to eat, and should be used at once, being tough when old. They are cooked same as Turnips, and, when well grown and used at the proper stage,

are	tender and very paratable.				
		Per o	oz. Per	¼lb.	Per lb.
784	Early White Vienna.	Handsome			
	and delicate; white ball	\$0	30 \$	0 85	\$3 00
789	Early Purple Vienna. P	urple ball;			
	a very good sort		35	1 00	3 50
791	Large White or Green.	Forms a			
	larger ball; not so fine	, but more			
	productive		15	50	1 50



VIENNA KOHLRABI.

LETTUCE.

LAITUE. Lechuga. Salat.

CULTURE.—Sow Nos. 798, 799, 802, 806 and 807 in hotbeds, in March, and in the open ground as soon as it can be worked, and transplant to rows eight inches apart. Sow in two weeks' time same varieties again, as also Cos, for a succession. In August sow any of the varieties, except No. 844, which should be sown in September. In October some of these may be planted in frames, to head in winter and early spring. Always sow thin and thin out well, or the plants will not be strong. The last spring sowing had better be grown where sown, being thinned out to six or eight inches apart. To have Cos in good order, they must be sown in a hotbed early in the year, and transplant in a coldframe, so as to have good plants to set out at the opening of the ground. They require tying for a few days when grown, to blanch. Lettuce requires good ground.

•==	Par		er¼lb.	
	797 Selected Buttercup. Yellow, solid,	02. 1	C1 74 10.	I CI ID,
	rather under-sized heads; for forcing	0.02	00 PF	60.70
	or outdoors	0 25	\$0.75	\$2 50
	798 White Forcing Head. Very early; small, solid head; one of the best	25	75	2 50
9	799 Thorburn Market-Gardeners' Private		10	2 00
	Stock. A selected strain; solid, large			
	heads, resisting the sun for a long time			
	before shooting up. Valuable also as an early sort, to be started under glass			
	for early spring transplanting into			
1	open ground	30	85	3 00
	800 Coldframe White Cabbage. For starting			
	in coldframes and setting out in early spring. Extensively used by market-			
	LETTUCE. gardeners	20	50	1 50
	801 Hubbard Market Lettuce. A large.			
	white, Cabbage variety; equally valuable for forcing or open ground	20	50	1 50
802	Large Boston. A fine strain for forcing under glass; very large, solid heads	25	75	2 50
803	French Blockhead. French sort; quite distinct; broad ribs	20	50	1 50
804				
200	color; particularly tender and sweet	20	50	1 50
805	Drumhead or Malta. Heads large; pale green	20	40	1 25
806	Early Curled Simpson. A leading early sort; very tender	20	50	1 50
807	Black-Seeded Simpson. A superior variety; large and of light color	20	50	1 50
808	Burpee Hard-Head. A handsome and very early heading variety; heads almost as solid as Cabbage; tender and of a sweet buttery flavor	20	50	1 50
809	American Gathering. Twisted and curled leaves; fine for early and late sowing.	20	50	1 50
810	California Cream. Solid heads, of good size; and of a rich cream-yellow color	20	50	1 50
	Boston Lettuce, for Forcing Under Glass. The popular winter-forcing variety	20	50	1 00
01.0	of the Boston gardener	30	85	3 00
815	Tennisball White Seed. A well-known forcing variety	20	50	1 50
817	Stone Tennisball Black Seed. Forms close, hard heads; for forcing	20	50	1 50
825	Shotwell Brown Head. Large and handsome, tender heads; very hardy	25	75	2 50
829	White Summer Cabbage. Close heads, of good size; fine for summer	20	40	1 25
837	Golden Stone-Head. A handsome Head-Lettuce; small and solid; for forcing	20	50	1 50
840	Salamander Head. Fine compact heads, which resist the summer heat admirably.	20	50	1 50
841	Mammoth Large Yellow Butter, Black Seed. Fine market strain	40	1 00	4 00
843	Large Yellow Butter, Gray Seed. One of the best; large heads	20	50	1 50
844	American Oak-Leaved. Very distinct, and of good flavor	20	50	1 50
845	Grand Rapids Forcing. Large, tender heads; one of the best for early-forcing.	20	60	2 00
846	Deacon. A large solid Cabbage-Lettuce for summer	20	50	1 50
847	Silver Ball. Very firm, solid, compact heads of a beautiful silvery-wnite color	20	50	1 50
848	White Russian Summer Head. An excellent summer Cabbage-Lettuce	20	50	1 50
849	Large Yellow Cabbage. Great, flat heads, uniform in shape and very tender	20	60	2 00
850		00	20	0.00
0=0	the leaves are beautifully marked and blistered, very crisp and tender	20	60	2 00
852	Golden Nugget. Quick-growing, hard-heading early; rich yellow; fine flavor	20	50 50	1 50
860	White Cos Romaine. Fine, if sown very early; requires tying up to blanch	20 20	50 60	1 50 2 00
862 864	Trianon Self-Closing Cos. The finest of all the Cos sorts, resisting warm weather Balloon Cos. Very large; for late sowing, to come to perfection in the autumn	20	60	2 00
001	Battoon Cos. Very large, for late sowing, to come to perfection in the autumn	20	UV	200

ICE-PLANT.

FICOIDE GLACIALE. Escarchosa.

CULTURE.—Sow in good garden soil as soon as the ground becomes warm in spring, in shallow drills one foot apart. Thrives well in hot, dry climates. Desirable for boiling like Spinach, or for garnishing.

		Per pkt. Per oz.
866	Clean Seed	

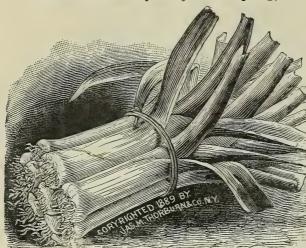
LEEK.

POIREAU.

Puerro.

Porro.

CULTURE --- Sow very early in the spring, in drills six inches apart and one inch deep. Thin out to one



LEEK.

inch. When about seven inches high, transplant them in rows twelve inches apart, and as deep as possible, but do not cover the young center leaves. Water thoroughly, if dry when planted out. Draw earth up to them as they grow; rich soil is required. Take up and store in earth in a cool cellar before winter weather. The seed may also be sown in September, and the young plants transplanted in spring to where they are to remain.

Peroz. Per 1/1b. Perlb.

1 01	OZ. I	C. /4 1D.	I CI IU.
Best Large Flag Winter.			
Hardy and productive \$6	25	\$0 75	\$2 50
Large Rouen Winter. A stand-			
ard sort; remains long in good			
condition	25	75	2 50
Large Carentan. A superior			
variety, with distinct and			
dark-colored leaves; stout in			
habit, and hardy	25	75	2 50
	Best Large Flag Winter. Hardy and productive	Best Large Flag Winter. Hardy and productive \$0 25 Large Rouen Winter. A standard sort; remains long in good condition	Hardy and productive \$0 25 \$0 75 Large Rouen Winter. A standard sort; remains long in good condition 25 75 Large Carentan. A superior variety, with distinct and dark-colored leaves; stout in

MARTYNIA.

(For Pickles.)

Gemfenhorn.

CULTURE.—Sow in May in the open ground, three feet apart in each direction, where the plants are to remain; or, the seed may be sown in a hotbed, and the seedlings afterward transplanted. Both varieties are productive, and fine for pickles. Pick when small and tender, and preserve the same as cucumbers.

875	Craniolaria Proboscidea										٠.		Pero . \$0	z. P 30	er 1/4 lb. \$0 75	\$3 00	
876	Proboscidea .													30	75	3 00	6
877	Lutea													30	75	3 00	1

MUSHROOM SPAWN.

BLANC DE CHAMPIGNON.

Seta.

Champignonbrut.

MARTYNIA

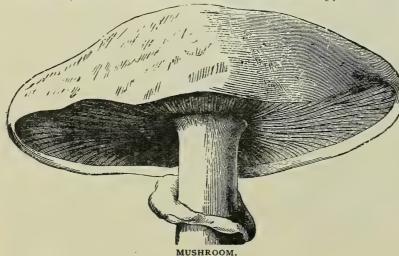
Culture.—Mushrooms may be grown in cellars, under benches of greenhouses or in sheds, wherever the temperature of 50 degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse-dung, free from straw and litter, and mix in an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent heating, until the pile is large enough to make a bed of the required size. Three or four feet wide, eight inches deep, and any length desired, are the proper proportions for a bed; but these may be varied. Prepare the mixture of loam and manure, making the bed in layers, and pounding down each with the back of the spade. Leave this to heat through for a few days, and as soon as the heat subsides to 90 degrees, make holes in the bed about a foot apart each way, into which put pieces of the spawn two to three inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself through the bed. Spread a layer of fresh soil over the heap to the depth of two inches, and cover with three or four inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, how-

does not get dry. Take special care, however, when water is given, that it be at a temperature of about 100 degrees.

From experience with French and English Spawn, we find there is an important difference between them. If the manure in the bed is in proper condition, the French Spawn will take hold and grow fully as well as the English; but if the bed is not in the right state, it will often rot. The English Spawn, on the contrary, after starting a little will remain in a comparatively dormant state for a long time without losing vitality. It is well to keep these points in mind in ordering spawn.

English Spawn. 12 cts. per 1b., 10 lbs. for \$1, 100 lbs. for \$9.

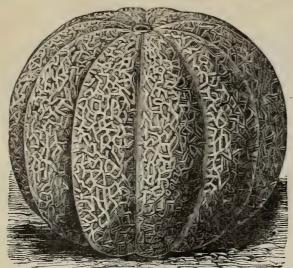
French Spawn. Per 3-lb. box, \$1; in bulk, per lb., 30 cts.



MELON, MUSK.

MELON MUSCADE. Melon Muscatel. Cantalupen.

CULTURE. - Select a light, sandy, rich soil, and after all danger of frosts are over and the ground has be



come warm and dry, plant in hills four to six feet apart each way, six to twelve seeds to the hill. When up, and all danger of insects has passed, pull out all but three plants. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting. Ashes, lime, or even dry road-dust, is excellent to sift over the young plants when the dew is on, to prevent the attacks of insects. A few hills for early may be had by sowing in hotbeds on pieces of sod or in pots. The seed may also be started out of doors under hand-frames or glasses.

It is quite important that proper soil be selected for growing Musk Melons, as on heavy soil the quality will be

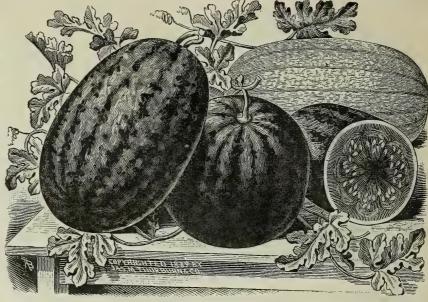
	poor.			
	Per.	oz. Pe	r ¼ lb.	Per lb.
3	878 Long Island Beauty. On the			
=	style of Hackensack. The ear-			
	liest, the finest in quality, and most beautiful of all the			
	Musk Melons . per pkt. 10 cts \$) 40	\$ 1 25	\$4 00
879	Champion Market. Of large size, slightly elongated, densely netted; flesh light			•
	green and very sweet	15	30	1 00
880	Golden Netted Gem. Very early; small and of fine flavor; green flesh	15	30	1 00
881	The Surprise. Early; oblong, with rich orange flesh of good quality	15	30	1 00
882	Bird Cantalope. Productive and very large	15	25	75
883	White Japan. Early, with light green flesh and white skin	15	25	75
884	Jenny Lind. Small, but very early and of good quality; green flesh	15	25	75
885	Nutmeg. Named from its shape; green flesh, sweet; good for main crop	15	30	1 00
886	Chicago Nutmeg. Of fine quality, and larger in size than the foregoing	15	25	75
887	Hackensack. Large, round and of good quality; a popular variety	15	25	- 75
888	Extra-Early Hackensack. Ripens ten days earlier than the Hackensack	15	30	1 00
889	Osage (Also called "Miller's Hybrid" and "New Princess"), Cocoanut-shaped;			
	yellow flesh; light green, netted skin; good quality	20	50	1 50
890	Hybrid Bay View. Very prolific and of great size, oblong; green flesh	15	25	75
891	Skillman Netted. Very early; oval in shape; flesh deep green, sweet and delicious	15	25	75
892	Orange Christina. One of the finest orange sorts; round, very sweet	20	50	1 50
894	Ward Nectar. Small, finely netted, dark-green flesh; very early and fine-flavored	15	25	75
895	Delmonico. Oval, deeply netted, large size; orange flesh	15	30	1 00
896	Baltimore Market. Oblong; orange flesh, of fine quality	15	25	75
898	Emerald Gem. Small, extra-early; smooth-ribbed dark green skin, and orange			
	flesh; quality first-rate; very sweet	15	30	1 00
904	Green Montreal. Large, round, netted; flesh thick and light green	15	25	75
913	Long Yellow Cantalope. Yellow flesh; well adapted for the north	15	25	75
915	Banana Citron. Cucumber-shaped, highly perfumed; of indifferent quality	15	30	1 00
916	Pomegranate. Ornamental; for perfume	20	60	2 00
917	Mango Melon, or "Vine Orange" (Also called "Vegetable Peach"). Size, shape and			
	color of an orange; thick meaty flesh. Besides its use for preserving or pickling it can be fried like Egg-plant when partially ripe	20	60	2 00
918	Pineapple. Medium-sized, oval-shaped, tapering to stem; flesh green, very thick,			
	delicate, and exceedingly sweet and high-flavored.	15	30	1 00
919	Winter Pineapple. An extraordinary melon, which can be kept in splendid con-			
	dition for months after being pulled per pkt., 10 cts	40	1 25	4 00
920	New Superior. A very handsome, round, new variety; densely netted; flesh	4 ==	200	1 00
001	New Giant. Round-shaped; light green color; skin smooth with little netting; flesh	15	30	1 00
921	deep salmon color, thick, fine-grained and not stringy; average weight, eighteen			
	pounds	20	50	1 50
	IMPORTED ENGLISH VARIETIES FOR FRAMES.			
	Varieties Anglaises pour Couches.			
928	Invincible Scarlet.		P	er pkt. \$0.25
930	Monroe's Little Heath. Scarlet flesh			
931	Blenheim Orange.			
934	Gilbert's Green-Flesh.			
	Lord Beaconsfield.			
000	TOTA SUNUOLISTORIA CONTRACTORIA			20

MELON. WATER.

MELON D'EAU. Zandia. Wassermelonen.

CULTURE.—Treat the same as Musk-Melon, except that they should be planted eight or ten feet apart according to variety.

- Vau Cluse Red-Seeded. Very early; shape elongated, stem slightly inclined to point. Flesh bright crimson. One of the best of recent introduc-tions. Per oz., 10 cts.; per 1/4 lb., 25 cts.; per lb., 75 cts.
- 986 Hungarian Honey. A very early sort from Hungary. Fine for northern latitudes; perfectly round; flesh brilliant red, seeds very small; Per oz., 15 cts.; per ½1b., 30 cts.; per lb., \$1.
- Green and Gold. Goldenorange flesh; skin very dark green; early, and a unique sort. Per oz., 10 cts.; per 1/4 lb., 25 cts.; per lb., 75 cts.
- 968 Jordan Gray Monarch. Largest melon grown; crimson flesh, fine; late. Per oz., 10 cts.; per ¼lb., 25 cts.; per cts.; per lb., 75 cts.



Per oz. Per 1/1b. Per lb

\$1 00

The Boss. Oblong, dark green; flesh deep scarlet and thin rind Volga. Light pale green skin; a small round Russian melon, with red flesh; late . Dark Icing. Solid, with thin, dark green skin; of superior quality; white seed Scaly Bark. Tough but thin rind; flesh crimson, tender and good; ships well . . Phinney. Early and of fine quality; red flesh . Dixie. A new melon of excellent quality; very large and solid; flesh red; early Johnson Christmas. Keeps late Girardeau New Favorite. Very large, oblong; flesh light crimson, and very sweet 1.00 Seminole. Very large, moderately early; quality first-rate. Cuban Queen. Solid and heavy; skin marked regularly; excellent quality

Black Spanish. Large, roundish, nearly black; dark red flesh; early

Ice Cream or Mountain Sweet. An old and reliable sort; red flesh.

Florida Favorite. A superior strain; improvement on Rattlesnake; earlier . . . Goodwin Imperial. Crimson flesh, fine quality; small, nearly round; very early . 1 00

MUSTARD.

MOUTARDE. Mostaza, Senf.

CULTURE.—Sow thickly during early spring, in shallow drills, and press the earth well down. For fall salad, sow in September; or in frames or boxes during winter.

Per oz Per ¼'b. Per lb. . . \$0 05 \$0 10 \$0 25 White American Giant Southern Curled. Very large leaves
Chinese Broad-Leaved. Leaves of agreeable flavor when cooked like Spinach 75 1 25 1040 Tuberous-Rooted Chinese. A new sort, with turnip-like root; used for salad . . .

Nasturtium.

CAPUCINE Maraneula. Nasturtium.

CULTURE.—Sow as soon as all danger of frost is past, in drills about an inch deep. The tall kinds require fences or poles on which to climb. The seeds are used in flavoring pickles, or as a substitute for Capers.

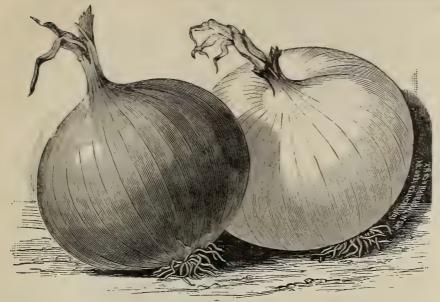
	Per oz. P	er ¼lb.	Per lb.	1 /		Per oz. F	er ¼lb.	Per lb.
1041 Dwarf Yellow	\$0 15	\$0 40	\$1 25	1042b	Tall Yellow	 . \$0 10	\$0 30	\$1 00
1042 Dwarf Scarlet	15	50	1 50	1043	Tall Blood-Colored	 . 15	35	1 25
1042a Dwarf Mixed,					Tall Mixed			1 00

For other varieties, including Tall and Dwarf Nasturtiums, see Flower Seed section.

ONION.

OIGNON. Cebolla. Zwiebeln.

CULTURE. - Sow in rich, sandy soil, in drills one foot apart, as soon as the ground can be worked in spring.



ONION.

Thin to three or four inches, using the rake and hoe frequently to keep down the weeds.

Bar sma Ital	riatic rletta. A all white ian sort e earlies	e ;	er ½	√lb.	Per	lb.
of a	ll	\$ 0 30	\$0	85	\$ 3	00
	en. Very					
whi	te sort .	30		85	3	00
1049 Ear	ly W hite	•				
	cera					
Son	mewhat	t				
larg	er than	1				
Qu	een, and	l				
quit	e early :	30		85	3	00
1054 Lar	ge White	•				
Por	rtugal					
Sta	andard	1				
sort	flat	35	1	25	4	00
		35	1	25	4	00
ery large	and early	25		75	2	50
for pickli	ng	30	1	00	3	50

1055 Large White Globe. Large Southport strain . 1060 White Maggiajola. A favorite Italian variety; of mild flavor; ve 1062 Thorburn Excelsior White Pickling. One of the best Onions 1063 English White Pickling. Also one of the best picklers 85 3 00 1064 Mammoth White Garganus or "Silver King." Silvery white Italian 35 1 25 4 00 30 85 3 00 25 75 2 50 30 1 00 3 50 25 75 2 50 75 2.50 75 2 50 25 2 50 1078 Giant Rocca, Light Red. Productive and mild; of very large size 20 1 50 1079 25 75 2.50 1082 2.00 20 60 2 00 1084 Yellow Danvers. A standard sort; rather oval; early and a good keeper 25 2 50 75 75 2 75 75 2 75 30 1 00 3 50 30 85 3 00 Welsh. The leaves are used for salad early in spring; sow early in fall 2 50 1093 Imported Shallot Seed per packet, 20 cts.

ONION SETS, TOPS, ETC.

Onion Sets and Tops should be planted near the surface, in drills about twelve inches apart and four inches in the rows. They must have high culture for best results. These last are valuable for early use, and where Onions from seed cannot be raised the first year, they are essential.

These are the prices ruling in January; later on they may be higher, owing to shrinkage and rotting.

Yellow Onion Sets	Per quart	½peck	Per peck \$1 25	Per bus \$4 50
White Onion Sets		1 25	2 00	7 00
Red Onion Sets	. 25	90	1 50	5 00
Red Top Onions	. 25	90	1 50	5 00
White Potato Onions	. 25	90	1 50	5 50
Shallots	. 40			
Garlic Sets . per lb., 40 cts.	•			



TOP ONIONS.

OKRA OR GOMBO.

Gombaud. Quimbombo. Safran.

CULTURE. Sow late in the spring, after the ground has become warm, in drills three feet apart, where the plants are to remain. Thin out from nine to twelve inches. They



ORACH OR FRENCH SPINACH.

ARROCHE, Armuella.

Per oz. Per ¼lb. Per lb.

60

60

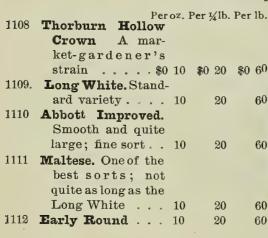
CULTURE.—Sow early in spring; cultivate and use like Spinach.

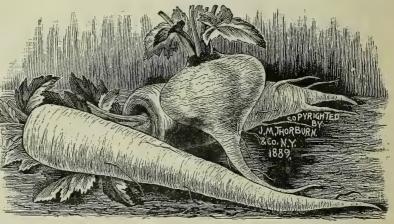
1101	Red.	Distinct; dark red leaves	. \$	er oz. 1 80 15	\$0 30	\$1 00
1103	White	. Pale green leaves; almost yellov	V	15	30	1 00

PARSNIP.

Panais. Chirijia. Pastinafe.

CULTURE.—Sow as early in the spring as the ground can be worked, in rich soil, in drills eighteen inches apart. The ground should be well and deeply dug. Thin to six or eight inches in the rows. Hoe and cultivate often to keep down the weeds.





PARSLEY.

PERSIL. Perijil. Petersilie.

CULTURE.—Soak the seeds a few hours in lukewarm water, and sow early in spring and until the middle of July, in drills one foot apart. Thin out the plants to four inches. To preserve in winter, transplant to a light cellar or

managed the same as Carrots and Parsnips.

		I (CI UZ. F	CI 1/4 10.	T CT ID.
	1115	Extra Curled. Superior	80 15	\$0 30	\$1 00
	1116	Moss Curled. Very pretty	15	30	1 00
	1117	Fernl-eaved. Fine curled	15	30	1 00
	1118	Beauty of the Parterre. Distinct and most beautiful for edgings, and			
	ત્રે	equally good as a condiment	15	50	1 50
	1120	Plain. The ordinary form	10	20	50
	3 1122	Hamburg or Rooted. Edible roots			
	3	much like Parsnips	15	30	1 00
CALL TO THE PARTY OF THE PARTY	D				_

LIVINGSTON, MONTANA, Nov. 18, 1891.

J. M. THORBURN & Co. You will be pleased to hear that the seeds I purchased from you proved far superior to any I purchased elsewhere. WALTER GOODALL. (Signed)

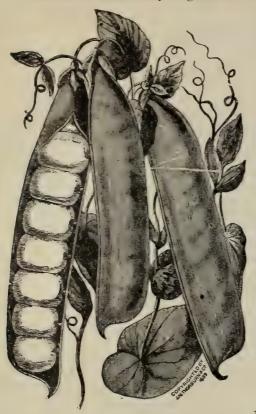
coldframe. No. 1122 should be thinned out while young, and



PEAS.

Chicaros o Guisantes. Erbsen.

CULTURE.—A week may be gained in earliness by sowing a quantity in moist sand, placed in a box in the



cellar, and planting outside when well sprouted. Light, dry soil, not over-rich, suits the Pea. Sow as early as the ground can be worked, and again every ten days for succession, up to the first of June, after which there is danger from mildew. Sow in single or double rows, from four to six feet apart, according to the different heights, about an inch apart in the rows (except such sorts as we note to sow thin), and four inches deep. In this climate the O'Rourke Peas, if planted from the 10th to the last of August, will produce a fair crop for fall picking, when Peas will be most acceptable. Hoe often, and keep the ground clean and fine. The tall sorts can be made to bear more freely by pinching-in. The dwarf varieties may be grown in beds like Bush Beans, with rows about the same distance apart. The holes which are sometimes found in Peas are caused by the Pea Weevil (Bruchus pisi). This insect is a native of this country, but is now found nearly all over the world. The beetles lay their eggs on the young pods, and the larvæ, as soon as hatched, make their way through the pods into the nearest Peas. They do not, as is sometimes supposed, destroy the germ, for Peas will grow if they are infested, but the plant is likely to be more feeble.

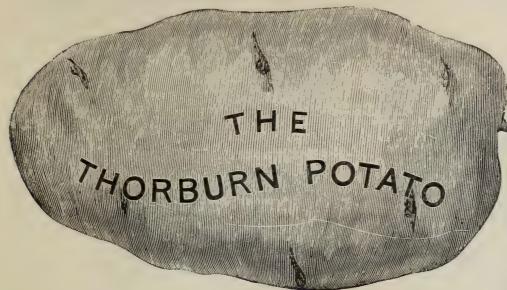
EXTRA-EARLY PEAS	6.			
Height in feet.		Per ½-pk.		
1141 Thorburn Extra-Early Market.	7	/2 F-	P	
Our standard market-garden				
extra-early Pea; productive and				
profitable to grow	25 \$	75 8	81 25	\$4 50
1142 Rural New-Yorker. Very early;	~~			
prolific and uniform in ripening . 21/2	25			4 00
1146 First and Best. Early; resembling Rural New-Yorker	25			4 00
1147 Alaska. One of the very earliest blue Peas; quite productive	25			4 00
1151 *Alpha. An extra-early, wrinkled Pea; sow thick				6 00
1153 Blue Beauty. Pods medium size; peas of fine flavor	25	79	1 25	4 50
1161 Daniel O'Rourke Improved. Best strain of extra-early; a favorite sort	25	72	1 05	4 50
among market gardeners	25			4 00
1168 Small Early French. (Petit Pois.) The true small French Pea, so exten-	au	19	1 20	+ 00
sively used in France for canning and for the table	25	75	1 95	4 00
Sivery used in France for canning and for the table	20	10	1 20	4 00
EARLY AND MEDIUM PEAS.				
1186 *McLean Advancer. A fine, standard sort, of excellent quality	25	75	1 25	4 00
1188 *Horsford Market-Garden. On the style of Advancer; a good cropper, and				
very prolific	25	75	125	4 00
1200 *Everbearing. Long pods and large peas; sow thin	25	75	1 25	4 50
1201 Pride of the Market. Very large pods, green peas; sow thin	35	1 25	2 00	
1203 *Prince of Wales. Heavy cropper; peas of fine flavor	30		1 50	
1206 *Champion of England. A well-known, standard variety; sow thick 5	25	75	1 25	4 00
1210 *Duke of Albany. Immense pods on style of Telephone; a very superior pea				
of quick growth, following Advancer				8 00
1212 *Heroine. Large, full pods; enormously productive				9 00
1213 Fillbasket. Of excellent flavor; one of the best	30-	90	1 90	5 00
1214 *Shropshire Hero. A valuable new variety; very productive and of	40	t or	9 00	7 00
fine flavor. Of English origin				9 00
1225 French Dwarf Sugar. Edible pods				10 00
1226 Melting Sugar. One of the best edible-pod sorts4 1228 Mammoth or Giant Sugar. Of French origin; immense pods; the best	<i>50</i> .	1 00	2 10	10 00
edible-pod variety	50	50	9.75	10 00
1229 *Yorkshire Hero. A spreading variety; very productive; sow thin 2½	25			4 00
1231 Blue Imperial. A productive blue Pea	20	50		3 00
1201 Diag Emperial. A productive office of a constant of a	20	00	00	3 00

	MAIN AND LATE CROP PEAS.			
100% 4.7.1	Height	Per Po qt. ½pl	er Per	Per bus,
1237 John Bull. On the styl	e of Stratagem, but a little taller; delicious pea for main crop			
	1247 Culverwell Telegraph. Very large pods and peas; of excellent flavor 4.			
	1248 *Carter Telephone. Enormous pods and peas	90 1 0	00 1 75	6 00
	of first-class quality	30 1 0	00 1 50	5 50
	now in the English market; superior flavor 5.	30 1 0	00 1 75	6 00
	1251 White Marrowfat. A favorite; heavy yielder	20 5	0 75	2 50
	1256 Black-eyed Marrowfat. Very hardy and			
	prolific		0 75	2 50
	DWARF VARIETIES-GROW WITHOU			
	Height I		r Per k. pk.	Per bus.
	1259 *American Wonder. Extra early and productive; fine quality	30 \$1 0	0 \$1 75	ሜ ይ በበ
	1260 *Carter Stratagem. Mammoth pods and	30 41 0	V VI 10	φυ υυ
	peas of the first-class; sow about six inches apart in the drills	35 1 2	5 2 00	7 00
	1261 *Abundance. Long, round, well-filled pods;			
	sow thin	25 7	5 1 25	4 00
	peas large	25 7	5 1 25	4 50
	1268 *Premium Gem. Extra early; straight pods, well filled	25 8	5 1 50	5 00
	1271 *McLean Little Gem. Extra early; straight pods	25 8	= 1 =0	F 00
	down =		5 1 50 5 1 50	
	Those marked * are wrinkled marrows, and, unle	ss other	wise st	ated,
	should be sown thicker than the round Peas, and not till come warm, as they are more liable to rot. They are t			
	all Peas.			
	PUMPKIN.			
	Potiron. Calabaza. Große Kürbi	5.		
	CULTURE.—May be planted middle of spring, among			
	in the field or garden, in hills eight or ten feet apart each a hill. In other respects, are cultivated in the same may			
	Cucumbers. Avoid planting them near other vines.			
	1320 Large Cheese. Flat; one of the best for family	y	er ¼ lb. P	
	use		\$0 20 \$\ 20	60 60 60 60
	1322 Monmouth County Golden. Thick, fine-grained	i		
	flesh; valuable canner		20 20	60
	1324 Golden Oblong	. 10	30	1 00
	1324a White Cushaw. A pure white, crook-neck variety of excellent quality		20	60
MAMMOTH SUGAR PEA.	1324b Improved Cushaw. White, light green stripe	. 10	25	. 70
	1325 Red Etampes. Medium size, flat; fine for cooking keeper, of first quality; entirely distinct in fruit, plant		50	1 50
and seeds		. 10	25	75
	erookneck; fine for pies			$\begin{array}{ccc} 1 & 00 \\ 2 & 00 \end{array}$
1328 Mammoth Tours. Fren	ch	10		1 00
	Bell-shaped; thick, white flesh; fine for pies		30 15	1 00 30

POTATO.

POMME DE TERRE. Patata. Kartoffel.

CULTURE. -In order to have the best success in growing Potatoes, and to secure healthy, vigorous growth



and a crop free from rot, it is necessary to plant as early as the ground can be made ready. Select a rich soil, and plant in rows three feet apart, and the sets one foot in the rows. To kill the young weeds, run a light steeltooth harrow over the field lengthwise of the This will allow rows. the crop to get the start of the weeds, besides breaking up all lumps and leveling the ground ready for the cultivator. If wood-ashes and plaster can be procured, sow a good dressing over the

field after the Potatoes are up. If a very early crop is desired, it will be necessary to sprout the Potatoes before planting. Cut the Potatoes into pieces of any size desirable, and place in a warm, light room from four to six weeks before required for planting in the open ground. During this time shoots will start out strong and vigorous, so that, as soon as planted, they will send out roots and grow much more rapidly than those treated in the ordinary way. Another method is to place the sets in a hotbed two weeks before they are wanted, and then lift carefully and set out on fresh horse-dung, so that the heat will cause them to start at once. If the Colorado potato-beetle makes its appearance, the vines must be dusted with Paris green, mixed with about eighty parts of plaster; or, what is better, mix the Paris green in water, one small table-spoonful to a pail, and apply with a small brush or broom. Take care to stir the mixture often, or else the Paris green will settle to the bottom. Two or three applications during the season will usually suffice to clear off all the beetles.

These are the prices ruling in January; later on they may be higher.

	EARLY VARIETIES.	Per ½ pk.	Per	Per bus.	Per bbl.
1349		_			
1350	Beauty of Hebron. Slightly flesh-colored skin, with pure white flesh; one of the most popular early varieties in cultivation.	40	60	1 75	4 00
1351	Clark No. 1. Resembles Early Rose, but is more productive	40	60	1 75	4 00
1355	Early Puritan. White skin and flesh; moderately carly	40	60	1 75	4 00
1357	Early Sunrise. The true type of Early Rose	40	60	1 75	4 00
1362	Sunlit Star. Skin clouded with rose color; quality good	40	60	1 75	4 00
	INTERMEDIATE AND LATE VARIETIES.				
1366	Rural New-Yorker No. 2. Very few and shallow eyes; pure white skin and flesh; unexcelled table quality; immense yielder, and intermediate in ripening	40	60	1 75	4 00
1372	New Queen. In shape and color resembling White Elephant; fine quality	40	60	1 75	4 00
1382	State of Maine. Very productive; white skin and flesh; free from rot, and of superior table quality; fine late variety	· 40	60	1 75	4 00
1393	Late Beauty of Hebron. Resembling White Elephant	40	60	1 75	4 00
1394	Delaware. Large, and of fine quality; in color white, and in shape a little flattened; immense yielder	40 4	60	1 75	4 00
1396	Bright Red. The well-known Bermuda Potato	40	60	1 75	4 00
1401	Morning Star. A seedling of Beauty of Hebron; pure white, of first-rate quality, and an excellent keeper; medium to late	40	60	1 75	4 00

Dr. F. M. Hexamer, of the "American Agriculturist," New York.

"The Thorburn' potato has done splendidly with me, It is a large, handsome potato, very prolific, remarkably uniform in size, and of excellent table quality. Its flesh is pure white, fine-grained, and while it cooks through completely and quickly, it does not fall to pieces.

GOULD'S PORTABLE BRASS AQUAJECT.—A very compact and effective Force Pump, capable of rendering good service in conservatories, gardens, etc. Can also be used for washing windows, wagons, and for incipient fires. See cut, page 60. With 2½ feet ¾ inch suction and 3 feet ½ inch discharge hose, brass hose pipe and spreader. \$6. Longer length of hose can be furnished if desired.

PEPPER.

PIMENT. Pimiento. Pfeffer.

CULTURE.—Sow in hotbeds in March, and when the soil has become warm, set in rows two feet apart and eighteen inches in the rows; hoe frequently, and keep down all weeds. The plants may also be forwarded in small pots. Per oz. Per 1/2 lb. Per lb. Sweet Golden Dawn. Very handsome and distinct, and of mild flavor \$0 25 \$0 75 \$2 50 1421 Giant Emperor. Scarlet; very large and thick 1 25 4 00 1422 Ruby King. Beautiful bright red; large fruit, mild; one of the best. 2 50 1423 Large Squash. Productive; much used for pickles . . 25 75 2 50 Long Red Cayenne. Bright red; 1424 very productive 75 2 50 1425 Large Bell. Large and of mild flavor 75 2 50 1426 Oxheart. Heart-shaped and of medium size; fine for pickling 75 2 50 1427 Cranberry. Small fruit; used for pickles 85 3 00 1428 Large Golden Upright. Quite distinct; double the size of Golden Dawn, and quite sweet; fine for Mangoes . 1 50 5 00 1429 Brazilian Sweet Upright Mammoth. Bright red; very large. . 50 1 50 5 00 Thorburn Fancy Red Wrinkled. 1430 A new variety; about size of the Cherry Pepper, but distinct in 2 00 8 00 appearance; very pretty... Thorburn Fancy Yellow Wrinkled. SWEET MOUNTAIN PEPPER. 1431 Differing from above only in color. 75 2 00 8 00 1432 Red Cherry. Cherry-shaped; for pickles, for which they are largely used 30 3 00 3 00 3 00 85 3 00 75 2 50 2 50 1437 Celestial. A Chinese Pepper; at first fruit is yellow, and when fully matured be-2 50 comes a deep scarlet . . 75 1437a Bird's Eye or Creole. Small red fruit, size of a Marrowfat pea. Used in the manu-

RAMPION.

Raiponce. Reponche. Rapunzel-Rübe.

CULTURE.—Sow in the open ground early in May, either broadcast or in drills ten inches apart. As the seed is very fine, it merely requires to be pressed firmly into the soil. Thin out the seedlings if they come out too thick, and water frequently during hot weather. The roots may be gathered for use from October onward throughout the winter.

facture of "Tabasco Sauce."

Per oz. Per¼lb. Per lb.

ROQUETTE.

ROQUETTE. Jaramago.

CULTURE.—Sow early in spring, in rows, and thin out to eight or ten inches. If kept well scuffled and watered, the tart flavor of the leaves is greatly diminished. This flavor is not pronounced in the small leaves which are used for salad. The flowers, appearing from May to June, have very much the odor of orange blossoms.



1 25

4 00

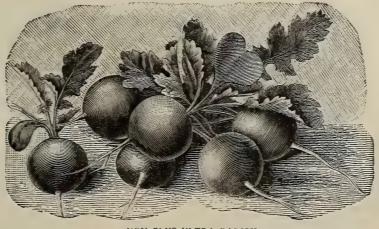
RAMPION

RADISH.

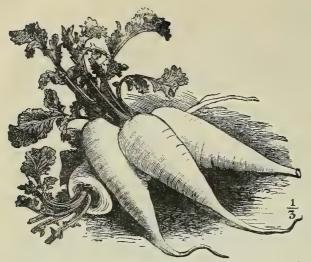
RADIS ET RAVE. Rabanos and Rabanitos. Radies und Rettig.

CULTURE.—Sow as soon as the ground is dry in the spring, in light rich soil, in rows eight to twelve inches apart, every week or ten days for a succession, up to the middle of June, after which they are but little used, unless a cool northern spot can be had, where the ground is shaded during part of the day. Sow also in early fall for late crops and winter use.

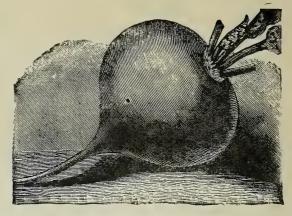
	101 1860 01	~				_									
	Those												Per ¼lb.		
	_	Early	French	Scarle	t. very	ear	riy					. \$0 10	\$0 20	\$0 (50
1442	**			••						; matures			25	,	75
1444	66	66	66	*Doon									20		75 60
1446		6.6	66	Deeb !	ii.					res in abou			25		75
1448	66	66.	44	*Scarle	t White					framesor			25		75
1449	44	44	44	(("		((w forcing			20	,	U
1110										out 20 days			25		75
1450	66	66 ×	Pruggia.	n Scarl	et Globe	-Sh	aned		_	ng or open			30	1 (
1452	66									g or open g			25		75
1454	6.6									short-leave			30	1 (
1456	4.4												30	1 (
1458	6.6									white and			25		75
1460	4.6									market .			25		75
1462	"									n			25		75
1464						_				ew York n			25		75
1466													25		75
1467													25		75
1468		_		_									25		75
1469										er radish;					
													50	1 5	50
1470													30	1 (
1471	66												25		75
1472	66	•	White.	Mild an	d fine for	r sui	mmer	r				10	25		75
1474	66												25		75
1476	*Long S	carlet	Short-To	op. Ver	ry long a	nd o	crisp	; for fra	ames or o	pen groun	d	10	20		30
1478	"									o white; to			30	1 0	00
1480	" * V	Vood E	arly Fra	ame. L	ong, red	, cri	isp, a	nd good	for forc	ing		10	20	6	30
1482	" 7	Vhite I	Vaples.	Slender	; for sur	nme	er use	e				10	25	7	75
1484										mmer			30	1 0	0
1486	· · · P	urple.	Very da	ırk								10	25	7	75
1488	*White S	Strasbu	irg Sum	mer. V	ery larg	e; t	he G	erman'	s favorite	e		10	25	7	' 5
1490	" *5	tuttga	rt Sumi	mer. V	ery early	y an	d ver	y large				10	25	7	75
1492	*Winter	Scarlet	t Chines	e. Very	y handso	me	and d	listinct,	, and kee	ps well		15	30	1 0	00
14 94	(*	Long 1	Black S _I	panish.	The pop	pula	r wir	iter sor	t			10	25	7	วัอ
1496	**	Round	Black S	S panish	. Fine t	for v	winte	r				10	25	7	ĭ5
1500	ι ί X	Long (Gray La	on. Po	pular Fr	enc!	h sor	t				10	25	7	75
1502												15	30	1 0	00
1504										ter variet		15	40	1 2	5
1506										Has edib					
	pods;	used ra	w or picl	kled .					p	er packet,	10 cts	40			



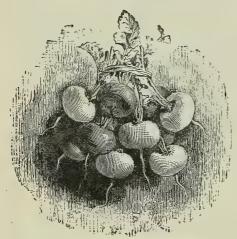
NON PLUS ULTRA RADISH



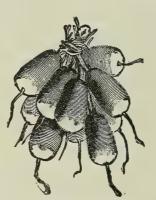
WHITE STRASBURG RADISH.



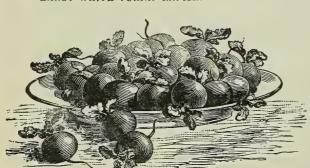
CHINA ROUND SCARLET RADISH.



EARLY WHITE TURNIP RADISH.



FRENCH BREAKFAST RADISH.





OLIVE SHAPED GOLDEN YELLOW RADISH.



WOOD EARLY FRAME RADISH.



SCARLET TURNIP WHITE-TIPPED RADISH.

RHUBARB.

Ruibarbo. Rhabarber.

CULTURE. - Sow seed in a cold frame, in a fine, rich, sandy loam, about the first of March, in drills four



SALSIFY.

inches apart. Keep the frame covered during nights and cold days, so that the soil will not freeze, and in six to eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart, and twelve inches in the rows. The following spring transplant again to four or five feet apart each way, and the next spring the stalks will be large enough to pull. When roots are set out, plant them four or five feet apart each way, and keep the weeds down. If roots are used, a crop may be had after one season, which is much better than sowing seeds where only a few plants for family use are needed. In the fall the bed should have a thick dressing of coarse manure, to be spaded under in spring. Peroz Per 1/lh Perlh

1514	Linnæus.	The	ea	rl	ies	st		٠	٠															25
1515	Victoria .																		ъ.		20	40	1	25
O	Roots						ea	cl	h,	10) c	ts	. ;	p	er	d	oz	la g	\$1					

SALSIFY OR VEGETABLE OYSTER.

Salsifis. Ostion Vegetal. Haferwurzel.

CULTURE.—Sow as early as the ground can be worked in the spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till spring, when it will be found fresh and plump. The roots are cut into pieces half an inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips. and have a sweet, agreeable flavor. Mashed and fried, the flavor is much like that of the oveter

	THE CHARGE OF THE CALL	1 01 02. 1 01 /410. 1 01 10.					
1528	Long White French	\$0 10	\$0 30 \$1 00				
1530	Mammoth Sandwich Island. Large and superior	15	50 1 50				

SCOLYMUS.

A vegetable from Spain. The roots resemble a small Parsnip, and will keep through the winter like a Turnip. It is cultivated exactly like the Carrot, except that it should be grown in rows three feet apart and eighteen inches in the rows. It is eaten boiled, like Salsify. Per oz. Per ¼lb. Per lb. . \$0 20 \$0 60 \$2 00 1535 Scolymus.....

SWISS CHARD OR SILVER BEET.

This is a Beet producing only leaves, and is excellent used as greens. Cultivate about the same as Spinach, by sowing the seed in early spring, in drills about a foot apart. As it grows, thin out for use, and keep clear of weeds if success is desired. Good cultivation will greatly increase the delicacy and tenderness of the leaves.

Per oz. Per 1/2 lb. Per lb. 1536 Swiss Chard . . \$0 10 \$0 20 \$0 60

SPROUTS.

CHOUX VERTS NON POMMES.

CULTURE. - Sow No. 1537 very early in spring, and Winter Kale in September. Full directions for growing the latter will be found on page 24, under head of Kale.

Peroz. Per 1/4lb. Perlb.

1537 Spring Sprouts, or English Rape per qt., 25 cts. 1538 Winter or Siberian,

Thorburn Improved \$0.10 \$0.25 \$0.75



SWISS CHARD.

SCORZONERA.

Scorzonere. Escorconera. Scorzionwurzel.

CULTURE.—Cultivate the same as Salsify. It is cooked in the same manner, but on account of being somewhat more difficult to raise, is seldom seen in cultivation. Considered by

many superior to Salsify. It is also called Black Salsify.

Per oz. Per ¼lb. Per lb.

SORREL.

Oseille. Acedera. Sauerampfer.

CULTURE.—Sow in spring, in drills eighteen inches apart, in a rich soil, and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

SKIRRET.

CHERVIS. Zuckerwurzel.

CULTURE.—Sow in drills half an inch deep, a foot apart; thin out to eight inches in the row; keep down the weeds. Take up the roots before winter, and store in sand or earth. It is a plump, fleshy root, containing a quantity of sugar, and is eaten like Scorzonera or Salsify.

SPINACH.

EPINARDS. Espinaca. Spinat.

CULTURE.—Sow in early spring, in drills a foot apart, every two weeks
for a succession; and as it grows, thin out for use. For fall use, sow in August, and for wirter crop in September. Cover that which is left out over winter with straw or leaves, after the weather becomes quite cold.
Keep clear of weeds. Sow the seed of New Zealand (which must be scalded and soaked in hot water before sowing) in hills three feet apart each way, three or four seeds in a hill. This is fit for cutting all summer.



MESSRS. J. M. THORBURN & Co.:

Dear Sirs: Your stock of New York Improved Purple Egg-Plant is fine. I have the best Egg-Plants in our market, and but two plants in 150 that are not absolutely true to type. Yours truly,

GEO. ARNOLD, JR.

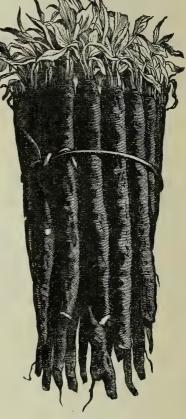
RICHMOND, IND., December 1, 1892.

MESSRS, J. M. THORBURN & Co.:

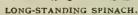
Sirs: I am pleased to say that the Thorburn Longkeeper Tomato is the earliest, most productive and best quality of all the many sorts I have raised.

Respectfully,

W. H. WOLFER.



SCORZONERA.



SQUASH.

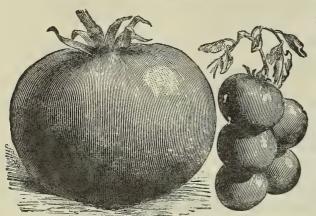
Courge. Calabaza. Speise Kurbis.

	Contraction Contra				
Ct	CULTURE.—Sow in hills in the same manner and at the same time as	Cucumbers and	Melor	is; the	bush
	varieties three to four feet	apart, and the r	unning	kinds	from
	six to nine feet apart.	ī	Per oz 1	Per ¼1b.	Dorth
	1583 Early Golden Bush.	Fine for sum-	CI UZ.	rei %10.	rei ib.
	mer use; not as ea	rly as the White			
	Bush		\$0 10	\$0 25	\$0.75
	1585 Early White Scallog				
	early shipping vari		10	25	75
	1586 Early Mammoth			,	
	Very large			25	75
	1587 Early Green Stripe				
111	gen. White, with				
	variegated	/	10	25	75
The second	1588 Summer Crookneck.				
2	distinct, best for su		10	25	75
76	1589 Summer Crookneck	Long Green			
2	Striped		10	25	75
	1589a Giant Summer Croo				
	CANADA CROOKNECK SQUASH. the size of the above		10	25	75
	1590 Egg-Plant Bush Sq	uash. A white-			
	fleshed Bush variety; oval in shape; suitable for frying like Egg-		15	30	1 00
1590a (Cocozell Bush. A new variety; oblong in shape, green and white				2 00
	cellent summer sort		10	25	75
1591 I	Early Orange Marrow. An improved Boston Marrow. Quite dist				• • •
	and of most delicate flavor; suitable either for fall or winter		10	25	75
1592 G	Golden Custard. A valuable new bush variety; golden-yellow fles		10	25	75
	Boston Marrow. Oval; bright orange; flesh yellow and fine		10	25	75
	Hubbard. Well known and liked for late use; of superior quality		10	25	75
	Pike's Peak. (The Sibley.) An entirely distinct sort, with thick		10	20	•••
1000 4	flesh. One of the finest winter varieties	_	10	25	75
1596 T	Turban. Orange-yellow flesh, of good flavor		10	25	75
	Low Bay State. With hard, blue shell: for fall and winter		10	25	75
	Butman. Salmon-colored flesh; dry and fine for late		10	25	75
	Salem Valparaiso. Large, oblong, bright orange fruit, of a delicat		10	25	
	Marblehead. Resembling the Hubbard, but has gray skin		10	25	75 75
	Perfect Gem. Round, white, fine quality, productive; good either for		10	25 25	
	Red Japan Small Turban. Fine, small, bright red, winter sort		15	20 30	75 1 00
	Cocoanut. Of first-rate quality, and very prolific		15	30	
	White Chestnut. In the form of the Hubbard; fine-grained, and as		19	50	1 00
1003	chestnut	•	10	25	~=
1606 E	Brazil Sugar. Yellow, warted skin; oblong in shape, and a first-		10	20	75
1000	summer or fall		10	0=	~~
1607 H	Red China. Small size; red skin and orange-yellow flesh		10 10	$\frac{25}{25}$	75
	French Olive. Olive-shaped; golden-yellow flesh, of good quality		20	50	75 1 50
	Pineapple. Peculiar shape; white skin and flesh; fine late sort		15	30	1 00
	Canada Crookneck. Small, well-known winter sort; green skin.		10	25	75
1010	Per oz. Per ¼lb. Per lb.		10	ನಿರ	(9
1611 V	Winter Crookneck.			The Land	
	Good keeper, with			AND THE	
	yellow skin \$0 10 \$0 25 \$0 75		-0500		O.
1612 T	The Warren. A new		EU.	The second	A PER
	type of the Essex			3	
	Hybrid; of su-	W.		外沙方	
	perior quality 10 25 75			S. M. S. C.	7
1613 N	Mammoth Chili.			MARIE	
	Grows to an enor-			用家以	
	mous size; rich or-		- Summifik	£15.	
	ange - yellow skin			River	1627
	and flesh 20 60 2 00			建	
1614 E	English Vegetable	CONRIGHTED	1889 81		-
	Marrow. Oblong,	JAS, M. THON	BURN &CO.		
	yellow fruit; tender flesh 15 30 1 00	Un COUL CITY		-	
	VARIO	US SQUASHES.			

TOMATO.

TOMATO. Tomates. Liebesapfel.

CULTURE.—Sow in hotbed in early spring, or the seed may be sown in shallow boxes and placed in a win-



dow, when one does not wish to have the trouble of making a hotbed. Transplant to the open ground when all danger of frost is past, setting the plants three or four feet apart each way. Some support should be provided for the vines to keep the fruit from touching the ground; brush, hay or anything of the sort will answer the purpose, or they may be tied to stakes. Fruit may be had several weeks earlier by sowing the seed quite early, and transplanting to small pots; when these are filled with roots, shift to a larger size, and transplant to open ground when weather is warm and settled, shading from sun for a day or sc. As the roots are not disturbed in taking plants from the pots, the plants suffer no check, but grow right on.

Skillful cultivators, by selecting and hybridizing, have greatly improved the Tomato.

Per oz. Per ¼lb. Per lb.

4 000		Per oz.	Per ¼lb.	Perlb.
1620	Thorburn Terra-Cotta. See Novelties, page 9; also Colored Plate.			
1622	Thorburn Lemon Blush. See Novelties, page 9; also Colored Plate.			
1625	Thorburn Long-Keeper. Bright red, early, very productive, and the longest keeper of all Tomatoes. (See Colored Plate) per pkt., 10 cts.	. \$0 40	\$ 1 25	\$4 00
1626	Thorburn New Jersey. One of the finest sorts; large, solid, smooth, bright red		75	2 50
1626a	Ponderosa pkt. of about 150 seeds, 10 c.; ½oz., 50 c.; ½oz., 75 c.; ½oz., \$1.			
1627	Ignotum. Very prolific; earliest of the large, deep red, smooth varieties		75	2 50
1628	Paragon. Bright red, round; very productive		75	2 50
1629	Volunteer. Moderately early; productive and of fair size; bright red		75	2 50
1630	Dwarf Champion. Quite distinct in foliage and habit of growth, being compact	6		
4.104	and upright; fruits early, and resembles the Acme in appearance		75	2 50
1631	Cardinal. Bright, glossy, smooth and solid; good size		75	2 50
1632	Atlantic Prize. The earliest of all; smooth, bright red and solid		75	2 50
1633	Perfection. (Livingston.) Early, regular and productive; red		75	2 50
1634	Favorite. (Livingston.) Large, smooth; productive and a good shipper		75	2 50
1635	Beauty. (Livingston.) Large, smooth, pinkish red; thick flesh, regular form		75	2 50
1635a	Stone. (Livingston.) One of the best introduced for years. It is very large, per fectly smooth, and of a fine bright scarlet color	- . 25	75	2 50
1636	Hovey. Fine red variety; resembles the Acme, of which it is a selection		75	2 50
1637	Acme. Medium, red; smooth and good		75	2 50
1638	Puritan. Large, smooth, bright scarlet; a favorite Boston market sort		75	2 50
1639	Chemin. Of French origin. A fine, large, bright scarlet, smooth sort		75	2 50
1640	Early Advance. Bright red; medium-sized, smooth, solid; very early		75	2 50
1641	Mikado. Very large, smooth, solid; skin purplish red		75	2 50
1642	Royal Red. (New.) A first-class main crop variety; skin and flesh of an intense			
2.7.2.0	red color	30	85	3 00
1643	Trophy, Large. Very solid and good in every way; standard late sort	. 25	75	2 50
1647	Prelude. (Horsford.) Bright crimson, round, smooth; rather under size and			
	growing in clusters; first-class sort to grow under glass or outdoors; very early	. 25	75	2 50
1649	Lorillard. A splendid sort for forcing under glass, as well as for outdoor culture			
	bright glossy red, smooth; of fine flavor, and very early	25	75	2 50
1655	Conqueror. Very early; fruit of medium size		75	2 50
1659	Yellow Plum. Round and regular; bright yellow; used for pickles		75	2 50
1662	Large Yellow. Large, deeply ribbed		75	2 50
1664	Peach. Resembling a peach; beautiful for preserves, pickles and exhibition		60	2 00
1668	Yellow Peach. Very handsome in form and of a beautiful clear yellow color		1 00	4 00
1672	Red Cherry. Fruit about an inch in diameter, in bunches; used in pickles		1 00	4 00
1675	Yellow Cherry. Similar to preceding, save in color		1 00	3 50
1678	Red Pear-Shaped. Fruit of peculiar shape; handsome and solid		75	2 50
1680	White Apple. Nearly white		75	2 50
1682	Red Currant. Very small and handsome; for preserves		1 25	5 00
1684	Upright Station Tree. The earliest of all to ripen a small part of its fruit; it		2.00	0.00
	grows in a compact manner, and is well adapted to pots per pkt., 10 cts.		2 00	8 00
1685	,		N/E	0 50
	ters; used for preserves	25	75	2 50

TURNIP.

Navet. Nabo. Rüben.

CULTURE.—For early Turnips, sow as soon as ground opens in spring. Nos. 1769 to 1774 should be sown from any time in July to first of August; but the other kinds, for winter use, may be sown from middle of July to end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly of the Ruta-Bagas) by cultivating in drills eighteen inches apart, and thinning to six inches in the drill. Sow one pound to the acre.

	Pumple Ten Munich One of the con	liost r	Per oz. Per ¼ lb. Per lb.
1700	Furple-10p Munich. One of the ear		varieties
			all Turnips; white, with purple top 10 30 1 00
		1707	White Egg. Oval; handsome and sweet
		1708	
		1200	growth; pure white 10 20 50
		1709	White Model. Shape, perfectly globular; snow white 10 25 75
	The Market of the Control of the Con	1715	Early Dutch. Rather flat; good white
		1718	early sort
			of distinct flavor; keeps well 10 30 100
		1720	Cow-Horn. Early and good; shaped like a Nantes Carrot
1		1722	Red-Top Strap-Leaf. The popular
		1724	flat fall sort
0		CIAT	sort in the New York market 10 20 50
		1726	, , , , , , , , , , , , , , , , , , , ,
		1728	White Strap-Leaf Flat. A good early white flat sort
		1730	White Flat or Globe. Large English
		1733	white Variety
Cu.		2100	ductive and a fine keeper 10 20 50
A		1738	B Pomeranian White Globe. Good either for table or stock 10 20 50
- 32		1742	Green Globe. Very large white-
		1744	fleshed sort
	9 19 19 19 19 19 19 19 19 19 19 19 19 19	1/44	flesh
COPY	RICHTED 1889 BY JAS,M.THORBURN &CO.N.	1746	
1748	Long White Tankard. A good keep	oer .	fine quality
1750			
1751	Yellow Globe. Good and sweet; keeps	er oz. l	Per ¼lb. Per lb.
	fairly well		
1753 1755	Yellow Stone. Fine hard winter sort	10	25 75
1199	Yellow Aberdeen. Hardy, productive and keeps well	10	20 50
1758	Golden Ball. Very handsome; keeps	10	20 50
1763	fairly well	10	20 50
	and distinct	10	
1764	Black Stone. Dark skin; very solid. Gray Stone. Solid and sweet; keeps	10	25 75
,1100	well	10	25 75
1767	Montmagny. Yellow, purple-top; first-class sort	10	30 1 00
1769	Improved Ruta-Baga. Good for		With the second
, 770	table or stock; hardy and prolific.	10 10	and the second s
	Champion Purple-Top Ruta-Baga. White Ruta-Baga. Large and pro-	10	10 40
	ductive	10	20 50
1774	Laing Ruta-Baga. One of the earliest, and keeps well	10	20 50
1776		10	
,	have along one in position that The second of		PAUL, MINN.
thirty	have pleasure in saying that I have dealt with y years, and have been always satisfied with you	r seeds	ls.
	S.	AMUEL	L MITCHELL. RUTA BAGA.



SEEDS OF POT, SWEET AND MEDICINAL HERBS.

Per pkt. Per oz. Per b. So 10 40 40 40 40 40 40 40
Anise. Seeds aromatic and carminative. Pimpinella Anisum. 5 10 60 Arnica. Has medicinal qualities Arnica montana 10 100 Balm. Has medicinal qualities Melissa officinalis 5 30 Basil, Dwarf or Bush. Culinary herb Ocymum minimum 5 20 1 50 "Sweet. Culinary herb, used for flavoring soups, etc. Ocymum basilicum 5 20 1 50 Belladonna. Used in medicine Atropa Belladonna. 10 50 Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrheea Sesamum orientale 5 20 1 50 Boneset. Has medicinal qualities. Eupatorium perfoliatum 10 60 6 00 Borage. Leaves used as a salad. Borago officinalis 5 15 10 00 Caraway. Seed aromatic Carum Carui 5 10 60 Catnip. Has medicinal qualities Nepeta cataria 10 40 4 00 Coriander. Seed aromatic. Coriandrum sativum 5 10 75 Dill. Seeds aromatic, pungent and medicinal Anethum graveolens 5 10 75 Elecampane. Has tonic and expectorant qualities. Inula Helenium 10 40 4 00 Fennel, Sweet. Seeds aromatic. Anethum Freniculum 5 10 75 Fox-Glove, Purple. Has medicinal qualities Digitalis purpurea 5 25 20 00 Fumitory. "Fumaria officinalis 10 40 4 00 Gromwell
Arnica. Has medicinal qualities Arnica montana 10 100 Balm. Has medicinal qualities Melissa officinalis 5 30 Basil, Dwarf or Bush. Culinary herb Ocymum minimum 5 20 1 50 " Sweet. Culinary herb, used for flavoring soups, etc. Ocymum basilicum 5 20 1 50 Belladonna. Used in medicine Atropa Belladonna 10 50 Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrheea Sesamum orientale 5 20 1 50 Bonsest. Has medicinal qualities. Eupatorium perfoliatum 10 60 6 06 <
Balm. Has medicinal qualities Melissa officinalis 5 30 Basil, Dwarf or Bush. Culinary herb. Ocymum minimum 5 20 1 50 " Sweet. Culinary herb, used for flavoring soups, etc. Ocymum basilicum 5 20 1 50 Belladonna. Used in medicine Atropa Belladonna 10 50 Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrhœa Sesamum orientale 5 20 1 50 Boneset. Has medicinal qualities. Eupatorium perfoliatum 10 60 6 08 Borage. Leaves used as a salad. Borago officinalis 5 15 100 60 Caraway. Seed aromatic. Carum Carui. 5 10 60
Basil, Dwarf or Bush. Culinary herb. Ocymum minimum 5 20 1 50 " Sweet. Culinary herb, used for flavoring soups, etc. Ocymum basilicum 5 20 1 50 Belladonna. Used in medicine Atropa Belladonna 10 50 Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrhœa Sesamum orientale 5 20 1 50 Boneset. Has medicinal qualities Eupatorium perfoliatum 10 60 6 00 Borage. Leaves used as a salad Borago officinalis 5 15 1 00 Caraway. Seed aromatic Carum Carui 5 10 60 Catnip. Has medicinal qualities Nepeta cataria 10 40 4 00 Coriander. Seed aromatic Coriandrum sativum 5 10 75 Dill. Seeds aromatic, pungent and medicinal Anethum graveolens 5 10 75 Elecampane. Has tonic and expectorant qualities Inula Helenium 10 40 400
Sweet. Culinary herb, used for flavoring soups, etc. Ocymum basilicum. 5 20 1 50 ## Belladonna. Used in medicine . Atropa Belladonna. 10 50 ## Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrhœa . Sesamum orientale . 5 20 1 50 ## Boneset. Has medicinal qualities . Eupatorium perfoliatum . 10 60 6 00 ## Borage. Leaves used as a salad . Borago officinalis . 5 15 1 00 ## Caraway. Seed aromatic . Carum Carui . 5 10 60 ## Catanip. Has medicinal qualities . Nepeta cataria . 10 40 4 00 ## Coriander. Seed aromatic . Coriandrum sativum . 5 10 75 ## Blecampane. Has tonic and expectorant qualities . Inula Helenium . 10 40 4 00 ## Fennel, Sweet. Seeds aromatic . Anethum graveolens . 5 10 75 ## Fox-Glove, Purple. Has medicinal qualities . Digitalis purpurea . 5 25 2 00 ## Fumitory . " " Fumaria officinalis . 10 40 4 00 ## Gromwell
Belladonna. Used in medicine . Atropa Belladonna. 10 50 Bene. The seeds yield a good oil. The leaves are used for dysentery and diarrhea . Sesamum orientale. 5 20 1 50 Boneset. Has medicinal qualities. Eupatorium perfoliatum. 10 60 6 00 Borage. Leaves used as a salad. Borago officinalis. 5 15 10 00 Caraway. Seed aromatic . Carum Carui. 5 10 60 Catnip. Has medicinal qualities. Nepeta cataria. 10 40 4 00 Coriander. Seed aromatic. Coriandrum sativum. 5 10 75 Dill. Seeds aromatic, pungent and medicinal . Anethum graveolens 5 10 75 Elecampane. Has tonic and expectorant qualities. Inula Helenium 10 40 4 00 Fennel, Sweet. Seeds aromatic. Anethum Freniculum 5 10 75 Fox-Glove, Purple. Has medicinal qualities Digitalis purpurea. 5 25 20 00 Fumitory. " Fumaria officinalis. 10 40 4 00 Gromwell . Lithospermum officinale 5 20 2 00 Hellebore, White. Crop doubtful Veratrum album Hemlock. Has medicinal qualities. Conium maculatum 5 30 3 00 Henbane. " " Hyoscyamus niger 5 20 1 50 Horehound. " Marrubium vulgare 5 20 2 00 Hyssop. " " Marrubium vulgare 5 20 2 00 Hyssop. " " Hyssopus officinale 5 20 2 00 Lavender. For oil and distilled water Lavandula vera 5 15 1 50 Lovage. Has medicinal qualities Levisticum officinalis 5 30 3 00 Marshmallow. Has medicinal qualities Levisticum officinalis 5 30 3 00
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Catnip. Has medicinal qualities. Nepeta cataria. 10 40 4 00 Coriander. Seed aromatic. Coriandrum sativum. 5 10 75 Dill. Seeds aromatic, pungent and medicinal Anethum graveolens 5 10 75 Elecampane. Has tonic and expectorant qualities. Inula Helenium 10 40 4 00 Fennel, Sweet. Seeds aromatic. Anethum Fœniculum 5 10 75 Fox-Glove, Purple. Has medicinal qualities Digitalis purpurea. 5 25 2 00 Fumitory. " "Fumaria officinalis 10 40 4 00 Gromwell Lithospermum officinale 5 20 2 00 Hellebore, White. Crop doubtful Veratrum album . Hemlock. Has medicinal qualities Conium maculatum 5 30 3 00 Henbane. " "Hyoscyamus niger 5 20 1 50 Horehound. " Marrubium vulgare 5 20 2 00 Hyssop. " Hyssopus officinale 5 20 2 00 Lavender. For oil and distilled water Lavandula vera 5 15 1 50 Lovage. Has medicinal qualities Levisticum officinalis 5 30 3 00 Marshmallow. Has medicinal qualities Althæa officinalis 5 30 3 00
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Marshmallow. Has medicinal qualities Althæa officinalis 5 30 3 00
marigoid, Full Osed in Souds Calendula dincinalis
Marjoram, Pot. Used as seasoning Origanum Onites 5 40 4 00
" Sweet. " " Origanum Majorana 5 20 200
Mint (Peppermint)
Pæony officinalis. Has medicinal qualities Pæonia officinalis 5 15 1 50
Pennyroyal. Has medicinal qualities
Rosemary. Yields an aromatic oil and water Rosmarinus officinalis 5 40 4 00
Rue. Said to have medicinal qualities Ruta graveolens 5 15 1 50
Saffron. Used in medicine and also in dyeing Carthamus tinctorius 5 10 100
Sage, Common. A culinary herb, also used in medicine. Salvia officinalis
" Red. Used as a culinary herb, and also in medicine. Salvia Hominum
Savory, Summer. Used as a culinary herb Satureja Hortensis 5 20 1 50
" Winter. " Satureja montana 5 30 2 50
Tansy. Generally used in bitters
Thyme, Broad-leaved English. Used as a seasoning
" French
Wormwood. Has medicinal qualities Artemisia Absinthium 5 25 2 50

FR	UIT	SE	EDS.
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	D	D 11
Apple Seed, American	Per oz.	
Franch Crah	•	\$ 0 3 0
Apricot Pits		40
	•	20
Cherry Pits, Mahaleb		30
Black Mazzard \$12		20
" Domestic		15
Nectarine Pits		
Currants, Red Dutch	. \$0 20	1 50
"White Dutch	. 25	2 00
" Cherry		2 00
Gooseberry Seed, Red	. 75	
Yellow	. 75	
"Green" 15 cents.		
Peach Pits (natural Virginia pits) per bushel, \$2 .		10
Pear Seed	. 20	1 50
Plum Dist Croon Coro	20	20
Plum Pits, Green Gage	•	
" Damson, for grafting		20
Quince Seed	. 20	1 50
Raspberry Seed		1 50
Strawberry, Mixed		4 59
"Red Alpine	. 75	

SEEDS OF HEDGE PLANTS.

(See also Tree Seeds.)

(311	
	Per lb.
Arbor-Vitæ, American	. \$2 50
Barberry, Common	. 1 00
" Purple-leaved Berberis folio-purpurea	. 2 00
Broom, Scotch	. 50
Buckthorn	. 1 00
Cornelian Cherry	. 1 00
Furze or Gorse	. 60
Hawthorn	. 50
Hemlock	. 4 09
Locust, Honey, or Three-Thorned Acacia Gleditschia triacanthos	. 40
"Yellow Robinia pseud-acacia	. 40
Norway Spruce	. 1 00
Osage Orange	. 50
Privet, Japan Ligustrum Japonicum	. 1 00
" Common Evergreen Ligustrum vulgare	
Sheep-berry (Black Haw) Viburnum prunifolium	. 1 25

VARIOUS VEGETABLES USED FOR PICKLES.

Directions for culture of each will be found under the proper heads. For prices, see body of Catalogue.

Beans, Refugee.

"Asparagus Pole.
Beet, Blood Turnip.
Brussels Sprouts, best French.
Cabbage, Red.
Cucumber, Green Prolific.

Melon, Vine Grang.
Martynia.
Nasturtium, Tall.
Onion, White Portugal.
"Queen, and others.
Pepper, Chili.
Celestial.

Melon, Vine Orange or Mango.

Pepper, Sweet Mountain. Giant Emperor.
Tomato, Yellow Plum. Red Cherry. 6.6 Strawberry 66 Yellow Cherry.

Peach.

VARIOUS VEGETABLES USED FOR SALADS.

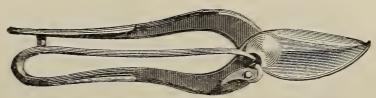
For prices and cultural directions for these vegetables, see body of Catalogue.

Amarantus Caudatus. Borage. Burnet. Celery.

Corn Salad. Curled Cress. Dandelion. Endive.

Lettuce. Mustard. Pepper, Sweet Spanish. Water Cress.

Roquette. Sorrel.



Perfection Pruning-Shears-The Best of All.

	Each (Eack
No. 1, 7 inches	\$2 00 No. 3, 9 inches	3 00
No. 2, 8 inches	2 50 No. 4, 10 inches	3 50

COMPLETE ASSORTMENT OF KITCHEN GARDEN SEEDS FOR PRIVATE FAMILIES.

Containing the Most Approved and Choice Sorts, in Quantities to suit Small and Large Garaens.

Names and Varieties.	No.1. \$5. If by Mail, add 75c. for Postage.	No. 2. \$10. If by Mail, add \$1.50 for Postage.	No. 3. \$18. If by Mail, add \$3 for Postage.	No. 4. \$25.
Beans Early Ne Plus Ultra Retugee Golden-eyed Wax "Pride of Newtown" Mont d'Or Pole King of the Garden Lima Beet Extra Early Egyptian Edward Half Long Blood Broccoli Purple Cape Brossels Sprouts Best Half Dwarf Cabbage Farly Wakefield Half-Seasons Thorburn's Drumhead Savoy Large Flat Dutch Thorburn Gilt-Edge Thorburn Gilt-Edge Thorburn Gilt-Edge Thorburn Gilt-Edge Thorburn Gilt-Edge Cauliflower Thorburn Gilt-Edge Thorburn Gilt-Edge Thorburn Savet Sugar Early Minnesota Sweet Sugar Excelsior Sugar Evergreen Corn Early Minnesota Sweet Sugar Evergreen Corn-Salad Large Seeded Cress, or Pepper Grass Cucumber Improved White-Spine Green Prollic Nichols Medium Green Improved New York Purple Badke Pekin Black Black Black Pekin Black Pekin Black Pekin Black Pekin Black Black Black Pekin Black Pekin Black Pekin Black Pekin Black Pekin Black Black Black Pekin Black Pekin Black Pekin Black Pekin Black Black Black Pekin Black Black Black Pekin Black Pekin Black Pekin Black Pekin Black Black Black Pekin Black Pekin Black Black Black Pekin Black Black	I pt. I pt. I pt. I pt. I pt. I oz. I pa. I pt. I oz. I oz.	I qt. I qt. I qt. I qt. I pt. I pt. I pt. 2 oz. 2 oz. 4 oz. 1 oz. 1/4 oz. 1/4 oz. 1/2 oz. 2 oz. 1 oz. 2 oz. 2 oz. 1 oz. 2 oz. 2 oz. 2 oz. 1 oz. 2 oz.	I ql. I qt. I oz. I oz. I oz. I oz. I qt. I oz.	2 qt. 1 qt. 2 qt. 1 qt. 2 qt. 1 qt. 2 qt. 8 oz. 8 oz. 1 oz. 2 oz. 1 oz. 2 oz. 1 oz. 2 oz. 1 oz. 2 qt. 2 qt. 4 qt. 2 qt. 4 qt. 2 oz. 1 oz. 2 oz. 1 oz. 2 qt. 2 qt. 2 qt. 2 oz. 1 oz. 2 oz. 2 oz. 2 oz. 2 oz. 2 oz. 2 oz. 4 oz. 2 oz. 4 oz. 2 oz. 4 oz. 2 oz. 4 oz. 4 oz. 8 oz. 2 qt. 4 qt. 1 qt. 1½ oz. 2 oz. 4 oz. 8 oz. 2 qt. 2 qt. 2 qt. 2 qt. 2 qt. 2 qt. 2 oz. 4 oz. 8 oz. 9 oz.



FORMATION OF LAWNS FROM SEED.

In the first place see that your ground is thoroughly drained and well prepared, sowing at least three bushels of seed to the acre.

Perhaps the best description of soil for a lawn is the stiff loam or clayey soils which predominate in so many districts. This ought not to be by any means too rich, as a rapid growth is not wanted in the grasses of a lawn, but in preparing it for laying down, let the surface be as much alike in quality as possible, and do not stint the quantity of seed. A little White Clover is a useful addition to the seed. A very stiff clay is no better than a very dry sand for resisting drought, as it is in a measure sealed up against the insertion of roots, and the surface contracting by the withdrawal of moisture, it is liable to crack, etc., to a great depth. Nevertheless, a stiff soil usually makes the best lawn.

If your ground is in condition to raise a good crop of potatoes, it will make a good lawn; add about half a ton of bone dust to the acre, harrowed in before sowing the seed. The success of establishing a good lawn depends much on the season and the condition of the ground at the time of sowing. A very slight raking in will protect the seeds much, or a sowing of wood ashes will render them distasteful to birds. Rolling, however, is at all times indispensable.

The best time to sow lawn grass seed is early in the spring, or about the latter part of August. We prefer the early spring.

One important thing ought not to be forgotten in the preparation of the ground. Let it all have a surface of about six inches alike, for nothing looks worse than to see a lawn grow all in patches. One exception, however, may be mentioned, and that is, if there be any steep slopes facing the south, or other exposed places, let the earth on them be better and deeper than on the ground level, as they are more liable to burn out. When the grass becomes well established, it should be frequently cut. The oftener you mow, the finer your grass will be.

It is proper here to observe that no lawn can be maintained long in good order without successive rollings. Mowing alone will not secure a good bottom without that compression which the roller tends to give. The rolling should be done in the spring, before the ground becomes dry.

To Grass a Bank or Terrace.—For each square rod, take a pound of lawn grass seed and mix it thoroughly with six cubic feet of good, dry garden loam. Place in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and as thin as possible.

Prench Mixed Lawn Grass. For croquet grounds, grass plats, etc., this mixture is recommended to be sown from three to four bushels to the acre. (15 lbs. to bus.) Per qt., 25 cents; per bus., \$4.50.

GRASS SEEDS.

The best means of improving meadows, pastures and lawns is to sow a sufficient variety of grass seeds. and we trust our customers will give some of the kinds a trial in connection with Timothy, which by many is believed to be about the only grass to be sown. Grass mixtures for the formation of permanent pastures, etc., are made to order, according to soil and location. The prices of some varieties may change as the season advances. Per lb. 100 lbs. Agrostis canina. (Rhode Island Bent Grass.) a valuable grass for lawns. Sow three or four bushels to the acre for lawns; for pasture, one and a half to three bushels. See "Formation of Lawns," page 45. (12 lbs. to bus.) . \$0 25 \$20 00 Agrostis stolonifera. (Fiorin, or Creeping Bent Grass.) Valuable as a mixture with other pasture grasses, as it will thrive in moderately moist land on which water does not stagnate. We find it also the best sort for croquet grounds, and small door-yards or grass-plats. Same quantity as the preced-25 18 00 ing. (15 lbs. to bus.) Agrostis vulgaris. (Red-top Grass.) A valuable permanent grass as a mixture in either meadows, pastures or lawns, growing in almost any soil, moist or dry, and standing well our hot climate. Same quantity as RED-TOP GRASS (Agrostis vulgaris). above. (14 lbs. to bus.) 25 13 00 FANCY HEAVY RED-TOP GRASS, absolutely clean seed . . Aira cæspitosa. (Hassock Grass.) A coarse grass, preferring stiff and marshy bottoms, and thriving in moist and shady woodlands. In England, door- Per lb. 100 lbs. mats are formed of it by the cottagers. 30 lbs. to the acre. . . \$0 25 \$20 00 Aira flexuosa. (Wood Hair Grass.) Delights in high and rocky hills; is of little agricultural value, except for sheep pasture. 15 00 Alopecurus agrestis. (Slender Fox-tail Grass.) An annual late-flowering Grass. 20 lbs. to acre.

Alopecurus pratensis. (Meadow Fox-tail Grass.) One of the very 20 00 best grasses for permanent pasture, and thrives to perfection on lands of an intermediate quality as to moisture and dry-20 00 Ammophila arenaria. (Beach Grass.) See Calamagrostis arenaria. Anthoxanthum odoratum. (True Perennial Sweet Vernal Grass.) For a mixture with pasture grasses, it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. For meadows its chief merit is its fragrant odor, which the leaves emit when partially dried, thus sweetening hay. It is a vegetable condiment, rather than a grass of much nutritive value. 10 lbs. to the RESCUE GRASS (Bromus Schraderi.) acre when mixed with other sorts 45 00 Anthoxanthum odoratum puelli. (Annual Sweet Vernal Grass.) Much smaller than the per-Per lb. 100 lbs ennial, and of much less value, lasting one year only. 20 to 25 lbs. to the acre 20 12 00 Avena elatior. (Tall Meadow Oat Grass.) Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle early and late. 50 lbs. to the acre. (13 lbs. to bus.) 25 18 00 Avena flavescens. (Yellow Oat Grass.) Will not thrive well when sown alone, but with other species it becomes desirable for dry meadows and pastures. About 25 lbs. to the 80 70 00 Beach Grass. See Calamagrostis arenaria. Bermuda Grass. (Cynodon dactylon.) Suitable only to our southern states (where it is very valuable), or the tropics; will not endure frost. On application we will give further information and quotations for larger quantities; to save time, please state the number of Blue Grass, Canada. See Poa compressa.
"English. See Festuca pratensis. Kentucky. See Poa pratensis.

SWEET VERNAL GRASS.

Texas. See Poa arachnifera.

GRASS SEEDS-CONTINUED.	11_	Per
Bromus pratensis. (Meadow Brome Grass.) Suitable in mixture for high and dry meadows. 30 lbs. to the acre		100 lbs.
Bromus inermis. (Awnless Brome Grass.) A valuable forage plant for light dry soils; answers for cutting and feeding in green state, for pasture or hay; very productive.	20	\$ 15 00
About 25 to 35 lbs. to acre	50	45 00
sandy land	18	13 00
CREEPING BENT GRASS (Agrostis stolonifera.) the acre Calamagrostis arenaria. (Beach Grass.) Valuable on the sandy seashore, canal and railroad banks, etc. It serves, with its tough, wide-spreading and thickly matting roots, to form natural and permanent embankments, preventing the drifting of the sand and protecting from wind and waves. Is of no agricultural value	30	25 00 30 00
Cynosurus cristatus. (Crested Dog's-tail Grass.) A valuable grass for sheep pastures, on dry.		
Dactylis glomerata. (Orchard Grass.) Less exhausting to the soil than Timothy, and will endure considerable shade. It blossoms about the same time as Red Clover, making it on that account a desirable mixture with that plant; it is exceedingly palatable to stock of all kinds, and its powers of enduring the cropping of cattle	30	25 00
	20	14 00
Dog's-tail. See Cynosurus cristatus. Festuca duriuscula. (Hard Fescue.) Not very productive, but it is of a very fine quality and thrives well in dry situations where many other grasses would fail, thus making it a desirable pasture variety. 30 lbs. to the acre	20	11 00
Festuca elatior. (Tall Fescue.) Succeeds best in moist, alluvial and strong clay soils, and in shady ravines; on moist, rocky seacoasts is considered one of the most valuable pasture grasses; it	25	20 00
Festuca heterophylla. (Various-leaved Fescue.) A very early grass, native of Germany. A valuable sort for permanent meadows and	25	20 00
Festuca ovina. (Sheep's Fescue.) Grows freely when in high, dry and open pastures. Its chief merit for sheep pasture is that it occupies land which better grasses refuse; grows from six to ten inches high. 35 lbs. to acre.	20	12 00
(Dactylis glomerata.) Testuca pratensis. (Meadow Fescue, or English Blue Grass.) A highly valuable species for permanent grass land. It does not, however, attain to its full productive power till the		22 00
second or third year, when it far exceeds most other sorts in quantity of its produce and nutritive matter. It is relished by live stock, both in hay and pasture, and is one of the most desirable permanent grasses for general culture. 40 lbs. to the Per lb. 100 lbs.		
Pestuca rubra. (Red Fescue.) The essential		
distinction of this Fescue is its creeping roots, which, in dry and sandy soils, are often as strong as those of the common Couch Grass. Well adapted for gravelly banks and dry slopes, which it will protect and cover. 25 lbs. to the acre		
Festuca tenuifolia. (Slender Fescue.) Flourishes well on dry and sterile soils. It is well suited for large bleaching greens, lawns, etc. 30 lbs. to the acre 30 25 00 Fox-tail. See Alopecurus pratensis. Holcus lanatus. (Meadow Soft Grass.) In-	No.	
ferior to many other sorts, but of easy culture, and accommodates itself to all descriptions of soils, producing a fair crop under unfavorable circumstances. 4 bus, to the acre. (7 lbs. to bus.) 20 15 00		
Hungarian Grass. See Panicum Germanicum. Johnson Grass. See Sorghum Halepense, page 54. SHEEP'S FESCUE (Festuca ovina).		

	GRASS SEEDS-CONTINUED.		Day
Lolium Italicum. (Italic	in Rye Grass.) One of the most valuable grasses in Europe, bein	Per lb.	Per 100 lbs.
A Williams	equally suited to all climates. In England it is considered the best known grass to cut green for soiling, affording repeated large an nutritive crops. We recommend it here for use in pasture mixtures. 50 lbs. to the acre	.d K-	\$ 9 00
	Lolium perenne. (English Rye Grass.) Is the staple grass of Great Britain, entering largely into the composition of many of the rick est meadows and pastures. Its natural adaptation to almost a cultivated soils, and its early maturity, are the reasons it has hitherto been so extensively cultivated in preference to man	n- ll s	
	other equally nutritious sorts. 60 lbs. to the acre Out Grass. See Avena elatior.	. 12	8 00
	Orchard Grass. See Dactylis glomerata. Phalaris arundinacea. (Reed Canary Grass.) Grows well by the side of rivers, alluvial marshes, ditches, etc. 25 lbs. to the acre	e . 50	45 00
	Panicum Germanicum. (Hungarian Grass.) One of the most valuable annual soiling plants. It will grow in any ordinary soil, withstands drought well, and in this latitude may be sown		
ITALIAN RYE GRASS.	as late as the first of July, and yet produce a large green crop. 1½ bus. to Per lb. 100 lbs. the acre. (48 lbs. to bus.) \$0 10 \$2 75		
scription, except that, f	thy.) A grass so well known needs no deor a hay crop on moist, peaty or clay soil,)
well suited for light, sa	er crop than any other sort. It is not so ndy soils. ½ bushel to the acre. (45 lbs. e, from \$2.50 to \$3.50 per bus		2
ure grass for very wet	eadow Grass.) This is an excellent past- situations, where it will serve a useful acre		
Poa arachnifera. (Texas pasture grass for the s	Blue Grass.) A most valuable perennial outh, lasting indefinitely. A much more		Y
rapid grower than the kas far as Kansas. The	Sentucky Blue Grass. Has proved hardy seed is very light; about 6 lbs. to the bus. Per oz., 25 cents 3 00		
		Per lb. 1 \$0 20	.)
	tritive herbage, recommend it strongly for pastures. Thrive well under close feeding, and is very valuable. 30 lbs. to the acr Poa pratensis. (Kentucky Blue Grass.) It is also known as Gree Grass, June Grass, etc., and thrives on a variety of soils, but doe	e 45 n	42 00
	best in dry and somewhat shady locations. It requires several years to become well established in the ground as a pasture grass. Very valuable for the southern states, as it will stand the hottes summers. 1½ bushels to the acre. It is also a most valuable grass for the lawn, for which purpose from three to four bushels of	S S S of	
	clean seed to the acre should be sown.* (14 lbs. to bus.) Fanc cleaned seed	y . 20	13 00
TIMOTHY (Phleum pratense).	Poa trivialis. (Rough-stalked Meadow Grass.) The superior product of this grass over many other species, its highly	, U	1
marked partiality whi	nutritive qualities, and the ch oxen, horses and sheep which distinguish it as one of the most valuable of those		ŧ
	grasses which affect moist, rich soils and sheltered sit- uations. It is a great fa-		1
	vorite when used under its proper conditions. 20 lbs. Per lb. 100 lbs.		1
	to the acre \$0 25 \$20 00 Red Top. See Agrostis vulgaris. Rhode Island Bent Grass. See Agrostis canina.		¥
	Rye Grass. See Lolium Italicum and Lolium perenne.		1
	Sweet Vernal Grass. See Anthoxanthum odoratum Timothy. See Phleum pratense.		
PERENNIAL RYE GRASS.	*For full directions as to sowing and treatment of Lawns, together with details as to the best Lawn Grass mixture, see page 45. CRESTED DOG'S-TAI (Cynosurus crist		

CLC	OVERS.
Alfalfa. (Lucerne.) This is the same as Lucerne.	will produce several crops every season
	10 to 15 lbs. to the acre
	stiff soils. 10 lbs. to the acre
	good for ensilage and bees. 10 lbs. to the acre
	sown in Virginia. 20 lbs. to the acre 25 13 00 Japan Clover. See Miscellaneous Seeds,
	page 53. Kidney Vetch, or Sand Clover. (Anthyllis Vulneraria.) A deep rooted herbaceous hardy perennial plant, valuable for dry sands and inferior soils, upon which Red Clover will not thrive. Eaten with avidity by sheep, cattle and horses. Useful in mixture for dry soil. Produces abundantly of hay and seed. Sow 20 lbs. of seed per acre
TRIFOLIUM INCARNATUM.	Large Red, or Pea-Vine Clover. (Trifolium pratense.) The English Cow Grass; for plowing under. Price variable Medium Red Clover. (Trifolium pratense.) Is a perennial, but of very few years' duration; is nutritious and palatable for
cattle, sheep and horses; especially valuable in	moist locations Price variable .
White Clover. (Trifolium repens.) Valuable for la Yellow Trefoil. (Medicago lupulina.) This may be Requires about the same treatment as Clover; 1	cultivated either alone or with other grasses.
BIRD SE	EDS, ETC.
Prices variable. Canary, best Sicily. (Phalaris Canariensis)	Per lb. 100 lbs.
Mixed Canary Seed	
Hemp. (Cannabis sativa)	per oz., 5 cents
Millet, American. (Panicum miliaceum)	
	3 00
Rough Rice. (Oryza sativa)	6 00 8 00 6 00
Gravel for Cages . per quart, 6 cents . Cuttle-fish Bone . per pound, 50 cents . Sunflower Seed for Parrots	6 00
ESCULENT ROOTS AND PLANTS	
Asparagus Roots, Conover's Colossal (two Doz. In yrs. old) per 1,000, \$7. "Palmetto. per 1,000, \$9. "Barr's Mammoth per 1,000, \$8. Chive Plants per bunch, 25 cents. Chufas, or Earth Almonds, per qt., 40 c.	Per 100. \$1 00 1 25
Cinnamon Vine Roots (Dioscorea Batatas, Chinese Yam), 3 to 5 inches long \$0 75 Horseradish Roots. Cut in pieces 25 Jerusalem Artichoke. qt., 20c.; bus., \$3.50 Rhubarb Roots 1 00 Sea Kale Roots	5 00 1 00 KIDNEY VETCH, OR SAND CLOVER.

CEREALS.

***Grain in quantities of one-half bushel and upward should be shipped in canvas bags, which we can supply at following rates: One-half bushel, 15 cents; one bushel, 18 cents; two bushels, 20 cents. Customers will please add cost of bags to remittance when ordering.

The prices of some varieties may change as the season advances. **BARLEY.** (48 lbs. to bushel.)— Per qt. Per bus. BUCKWHEAT. (48 lbs. to bushel.)-American Silver-Hull. Earlier and more productive than the common 1 25 New Japan. Enormously productive; the grains are much larger than any other variety 1 50 CORN. (56 lbs. to bushel.) All north- Per Per Per raised sorts ear. 100 ears. qt. bus. Blunt's Prolific. Valuable sort for Chester County Mammoth. Very large, late, yellow Dent 05 4 00 15 1 75 05 3 00 Early Yellow Canada. (Flint) . 15 1 75 Golden Dent. Farmer's Favorite. 05 3 00 15 1 75 Golden Beauty. (Dent.) Large and 05 3 00 15 1 75 Golden Dew-Drop. (Yellow Flint.) Early

Hickory King. Large grain and small cob; white Dent 05 3 00 15 1 75 05 3 00 15 1 75 King Philip. Early dark yellow 05 3 00 15 1 75 Long White Flint, or Sanford . 05 3 00 15 1 75 Longfellow. (Yellow Flint.) Small 05 3 00 cob and large grain 15 1 75 05 3 00 15 1 75 Mammoth White Surprise. Is very large, dented; deep grain. 05 3 00 15 1 75 Mastodon Dent. Very early, strong-growing corn with exceedingly large ears and grain . 05 3 00 15 .1 75 Queen of the Prairie, or Pride of the North. Very early Dent; Eastern grown 05 3 00 15 1 75 Leaming Early. Large, deep grain, bright yellow 05 3 00 15 1 75 Thoroughbred White Flint. Of spreading habit; not more than one kernel should be grown in a hill. Its great suckering habit, breadth of blade, and smallness of stalk recommend it both for fodder and ensilage purposes . . 05 4 00 15 2 00 Virginia Horse-Tooth. For fodder 1 50 Sweet Fodder-Corn. (Measured bushel) 2:50 Pop-Corn In ears, per lb., 10 cents . . Per lb. 100 lbs. OATS, Drogheda Irish Imported. A valuable Clydesdale Scotch Imported American White price variable . . RYE. (56 lbs. to bushel.)— 15 1 25 Winter Excelsion WHEAT. (60 lbs. to bushel.)— 20 2 00 20 2 50 20 2 50 Oregon White Winter. (Bearded.)..... 20 2 50 Rural New-Yorker Cross-Bred and Hybrid Wheats. For full description of these valuable Wheats, see page 51

CROSS-BRED AND HYBRID WHEATS.

Strong Stems-Hardy-Prolific.

NOTICE.—None genuine unless purchased of us, as the entire product was sold to us by Mr. Carman.

THREE NEW VARIETIES.

MR. E. S. CARMAN, the editor of The Rural New-Yorker, began his work of improving Wheats some sixteen



years ago. The first step taken was to secure the leading varieties of this and other countries and test them side by side in small plots. After testing in this way some 200 so-called varieties, that known as Armstrong, a beardless white-chaff sort, with amber grains, was selected for the mother plant in the proposed crossings then begun and since continued. They were effected in a thoroughly scientific, painstaking way, that has left no room for doubt as to the character of the results. Hundreds of crosses have been made within the last sixteen years. Most of them have, from time to time, been rejected as of no greater value than the well-known kinds already in cultivation. The others have been retained, with the intention of introducing them to the public as fast as they should become fixed in character and give promise of excellence.

The following three new varieties were introduced for the

first time last year:

No. 1. By parentage, half wheat, half rye. Mother parent Armstrong. Heads compact, symmetrical, pointed, bearded; brown chaff. Three grains to a spikelet, eight spikelets to a side. Kernels hard, reddish or dark amber. Straw very strong and of medium height. As early as rye. Thought to be very hardy.

No. 4. By parentage, half wheat, half rye. Mother plant crossed progeny of Armstrong. Heads symmetrical and absolutely beardless; brown chaff. Three grains to a spikelet, eight and nine spikelets to a side. Dark amber kernels. Stems very strong. Ripens with rye.

No. 52. Pure wheat cross, the original of which was Armstrong, crossed and re-crossed through several generations. Heads symmetrical, broad; brown chaff, nearly beardless. Medium to ripen. Light amber kernels, four to a breast; nine breasts to a side. The breasts are often double.

Prices for Each Variety; Postage or Express Charges Paid by Us:

Per ounce\$0	25	Perilb	\$1	00
Per 1/4 1b	50	Per 5 lbs.	3	ÓO
Per 1/2 lb				. }

STANDARD VARIETIES INTRODUCED IN 1889.

The following five varieties were first introduced in 1889. Since then, the reports on and orders for these wonderful wheats which we have received from all parts of this country and Europe indicate that their peculiar merits are recognized and our expectations of them justified.

and Europe indicate that their peculiar merits are recognized and our expectations of them justified.

Willits and Roberts are hybrids between rye and wheat, though the rye blood does not manifest itself. They are, in appearance, pure wheats. The others are pure wheat crosses.

WILLITS (NO. 2). Half wheat, half rye by parentage, though resembling wheat in all respects. Nearly as early to mature as rye. Heads average over three inches long, eight breasts (or spikelets) to a side. Chaff white, beardless. Often four grains to a breast, always three, of medium size, amber color, and apparently hard. 10 cents per ounce, 30 cents per pound, \$1.25 per 5 pounds.

ROBERTS (NO. 3). Half wheat, half rye by parentage, though resembling wheat in all respects. Nearly as early as rye to ripen. Tall, yellow, stiff straw. Heads average three inches long, seven breasts to a side. The chaff is brown, bearded. Three grains to a breast, small to medium, dark amber. 15 cents per ounce, 40 cents per pound, \$1.75 per 5 pounds.

STEWART (No. 51). Pure wheat cross. Late. Heads very long, averaging over four inches, nine breasts to a side; chaff brown, heavily bearded. From three to four grains to a breast, medium size, amber color. Stem tall and strong. 15 cents per ounce, 40 cents per pound, \$1.75 per 5 pounds.

BEAL (No. 53). Pure wheat cross. Medium to mature. Heads average nearly four inches. Breasts crowded—often ten to a side. Chaff very clear and white, heavily bearded. Four grains to a spikelet—sometimes five—fair size, amber color. Inclined to club-head. 10 cents per ounce,

five—fair size, amber color. Inclined to club-head. 10 cents per ounce, 30 cents per pound, \$1.25 per 5 pounds.

JOHNSON (No. 55). Pure wheat cross. Medium to ripen. Heads average nearly four inches. Eight breasts to a side. Chaff white, heavily bearded. Three to four grains to a breast, fair size, bright amber color, hard. Regular heads. 15 cents per ounce, 40 cents per pound, \$1.75 per 5 pounds.

MISCELLANEOUS SEEDS, AND SEEDS OF ECONOMICAL PLANTS.

ASPERULA ODORATA. (Waldmeister.) This perennial plant, growing about six inches high, bears a small, white and very fragrant flower; succeeds in almost any soil. In Germany it is thought much of as imparting a certain bouquet to Rhine wine when compounded with it, making a beverage commonly known as Maitrank. Per packet, 10 cents; per oz., 60 cents.

BEANS—Common English Horse Beans. Per lb., 15 cents; per 100 lbs., \$7.

Soja hispida. (Soja Bean.) Resembling a bean; the haulm is stiff, and the pods are produced in clusters of from two to five, and contain each four smooth, oval, nankeen colored seeds. This plant is said to thrive well in hot and dry weather; very valuable for the south, for either man or beast. Per lb., 15 cents; per 100 lbs., \$9.

BROOM CORN—Long-Brush Evergreen. Broom Corn succeeds in a good, deep soil, fresh but not damp; it is very sensitive to cold. Per lb., 15 cents; per 100 lbs., \$7.

Improved Dwarf. Per lb., 15 cents; per 100 lb., \$7. California Golden Long-Brush. Grows from twelve to fourteen feet high. Per lb., 15 cents; per 100 lbs., \$7.

BROOM, SCOTCH. (Genista scoparia.) The young growth of this shrub is chiefly valuable as food for sheep and other animals in winter. It is also employed for the making of coarse brooms. Per oz., 10 cents; per lb., 50 cents.

BURNET-Common Field. Per lb., 25 cents; per 100 lbs., \$12.

CAPER TREE. (Capparis spinosa.) Per paper, 15 cents; per oz., 60 cents.

CATERPILLARS. A curious plant. Of interest only on account of its curious fruit, from which its name is derived. Much fun is caused by mixing them in salad. Per paper, 5 cents; per oz., 25 cts.

CHICORY—Large-Rooted. A perennial plant, remaining five or six years in the same soil, provided it is cut before flowering. It may be cut four or five times during the same season, and furnishes an excellent green fodder. Sow broadcast in autumn or spring, either alone or with any kind of Clover. Sown in drills, the roots become well



developed. When they are dried, roasted and ground, they become the Chicory of commerce, and are used in adulterating coffee. Per oz., 10 cents; per lb., 75 cents.

COTTON—Sea Island. Per lb., 15 cents; per 100 lbs., \$7.

Tennessee Upland. 25 lbs. to the acre. Per lb., 15 cents; per 100 lbs., \$7.

COW PEAS. Adapted to southern localities; also valuable in this latitude as a fodder plant, sheep being very fond of them when in flower; their chief value, however, is as a green crop to plow under. 1½ bushels to the acre. Per quart, 20 cents; per bushel, \$2 50 to \$3.00.

DHOURA-Guinea Corn. See Sorghum.

plant, growing throughout the State of California and extending to British Columbia, New Mexico and Mexico, where it is called "Alfilaria." It belongs to the geranium family, and will grow two feet high. Makes an excellent fodder plant, either in the green state or cured as hay. Per oz., 10 cents; per lb., 60 cents.

ESPARSETTE. See Onobrychis sativa.

ESPARTO GRASS. (Stipa tenacissima.) This is the true Esparto Grass, extensively grown in Spain and other parts of the Mediterranean countries for making ropes, etc. Per oz., 60 cents.

FENUGREEK. An annual plant, and very fragrant. The seed is often sought by hostlers to give a temporary fire and vigor to their horses. It is frequently given to oxen and pigs when fattening, causing them to drink and digest their food. Considered to be good for soiling when green. Per oz., 10 cents; per lb., 40 cents.

FLAX SEED. Price variable.

FURZE. (Ulex Europæa.) The sprigs of one year's growth of this shrub furnish an excellent green fodder in winter; grows well in sandy soils. Per oz., 10 cents; per lb., 60 cents.

GUINEA GRASS. See Sorghum.

GUIZOTIA OLEIFERA. An annual from Abyssinia, from the seed of which oil is extracted. Per oz., 10 cents; per lb., 40 cents.

HOP SEED. Per packet, 10 cents; per oz., 75 cts.

INDIGO SEED. (Indigofera tinctoria.) Per oz., 15 cents; per lb., \$1.25.

IRIS PABULARIA. A foliage plant, flourishing in the driest and most arid soil. The leaves, twelve to sixteen inches long and produced three or four times in one season; are eaten by cattle, either green or dried. The seeds should be sown in beds, and the young plants set out ten inches apart each way, very early the following spring, where they are to remain. It is doubtful if it will prove hardy in the northern states, but it should certainly be tested in California and in our dry southwestern region. Per oz., 20 cents; per lb., \$2.

JAPAN CLOVER. See Lespedeza striata.

JERUSALEM CORN. See Sorghum.

JUTE. An annual plant. In Bengal the fibers of this plant are used for making coarse sacks in which coffee and sugar are packed, and also for coarse wearing apparel. It is cultivated extensively in the East Indies, China and Japan, and is now freely sown in our southern states. It thrives in any good corn ground. Sow in drills about eight inches apart, four pounds to the acre. Requires no cultivation, as it will outstrip in growth all weeds. May be also sown broadcast, six to seven pounds per acre. Per oz., 10 cents; per lb., 60 cents.

KAFFIR CORN. See Sorghum.

KIDNEY VETCH, or **Sand Clover**. See Clovers, page 49.

MISCELLANEOUS SEEDS-CONTINUED.

LENTILS—Best Imported. Succeed best in dry sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and largely used for soups. Per lb., 20 cents.

LUPINS—Blue. Used for the same purpose as the yellow variety. Per lb., 20 cents; per 100 lbs., \$8. White. One of the best plants known for soiling.

White. One of the best plants known for soiling. It may be sown from April to July, and plowed under when in flower. The seed when burned is excellent manure for orange and olive trees. Per 1b., 20 cents; per 100 lbs., \$9.

Yellow. Less thrifty than the white variety, but

Yellow. Less thrifty than the white variety, but still having an advantage over it in remaining green for a longer period. It succeeds well in the poorest soil, and many lands formerly poor have had their value greatly enhanced by plowing in this Lupin as a manure. Per lb., 20 cents; per 100 lbs., \$8.

LESPEDEZA STRIATA. (Japan Clover.) A perennial, growing about twelve inches high, valuable only in southern localities, where it thrives in any soil and in the driest seasons; it makes a fair hay, and stock eat it readily when green. Per lb., 35 cents; per 100 lbs., \$25.

LIQUORICE. (Glycyrrhiza glabra.) Seed in pods, per oz., 20 cents.

MADDER. (Rubia tinctoria.) A perennial plant the roots of which, when dried and reduced to powder, furnish a red coloring matter. If cut the second year when in flower, it furnishes a very green fodder. Per oz., 10 cents; per lb., 80 cents.

MADIA SATIVA. An annual plant, producing good sheep pasturage; valuable in dry and warm soil. Per oz., 10 cents; per lb., 60 cents.

MILLO MAIZE. See Sorghum, Branching.

onobrychis sativa. (Sainfoin, French; Es parsette, German.) A perennial leguminous plant. belonging to the same family as Clover and Lucerne; used in France as a forage plant. Requires a calcareous soil. 100 lbs. to the acre. Per lb., 15 cents; per 100 lbs., \$9.

OSAGE ORANGE. (Maclura aurantiaca.) For hedges. See Hedge Plants, page 43.

PEARL MILLET. (Penicillaria spicata.) A valuable fodder plant for the south; is enormously productive. Sow in drills eighteen inches apart, and eight to ten pounds to the acre. Per lb., 20 cents; per 100 lbs., \$12.

PEAS—Canada Field. Valuable for northern climates, for cattle feeding. Per quart, 15 cents; per bushel, \$1.50.

POPPY—Opium. The seed furnishes about thirty five per cent. of an agreeable sweet oil, good for eating, painting and illuminating. May be sown in spring either broadcast or in drills, covering with but little earth. Also cultivated for opium. Per oz., 20 cents; per lb., \$1.

PYRETHRUM ROSEUM. The plant from which is made insect-powder in Europe. Per oz., \$1.

RAMIE—Silver China Grass. (Urtica nivea.) This is the variety now so extensively cultivated in the south for its fibre. The seed should be germinated by sowing it on cotton, floating in a tub of lukewarm water, and transferring it to a bed, screened from the hot sun. When the plants are four inches high, transplant to a field in rows four feet apart each way, and when plants are three feet high, turn them over and peg to the ground, after which cover them with the earth and they will start in every direction, completely covering the field in a short time. Per oz., 75 cents; per lb., \$7.

REANA LUXURIANS. (Teosinte.) A valuable fodder plant from Central America, resembling in growth Indian Corn. Well adapted to our southern states. Per oz., 15 cents; per lb., \$1.25; 100 lbs., \$100.

SORGHUM-

Early Amber Sugar-Cane. Ripens where Indian Corn matures. Per lb., 15 cents; per 100 lbs., \$6.

Early Orange Sugar-Cane. Ripens about ten days after Early Amber. Per lb., 15 cents; per 100 lbs., \$6.

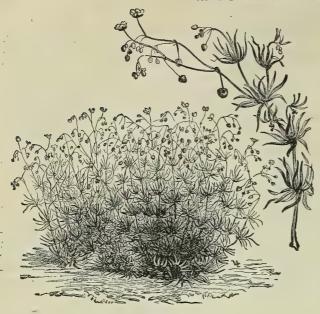
Yellow Branching. (Yellow Millo Maize.) Is tall, nine to twelve feet, stooling also from the ground like the White Branching or Millo Maize, but not so much. It sends out shoots also from the joints. It has all the vigor and vitality of other Sorghums. It is non-saccharine; useful only for the large amount of foliage, green feed or cured fodder that it furnishes, and for its grain. Earlier than the White Branching variety. Per lb., 20 cents; per 100 lbs., \$8.

white Branching. (White Millo Maize.) The merit of this non-saccharine Sorghum is, that when cut for feeding it starts again from the remaining stumps with renewed strength and vigor; thrives in the hottest and driest localities. One of the most valuable forage plants for tropical climates. Per lb., 20 cents; per 100 lbs., \$8.



SAINFOIN OR ESPARSETTE (Onobrychis).

MISCELLANEOUS SEEDS-CONTINUED.



SPURRY.

SORGHUM—continued.

Kaffir Branching Corn, or Sorghum. Non-saccharine, but distinctly different in habit from all others of that class. The plant is low, stocky perfectly erect. It does not stool from the root but branches from the top joints. The whole stalk, as well as the blades, cures into excellent fodder, and is all stages of its growth is a well-blate. fodder, and in all stages of its growth is available for green feed. If cut down to the ground, two or more shoots spring from the root, and the growth is thus maintained until checked by frost. Per lb, 20 cents; per 100 lbs., \$8.

White-Seeded. (Dhoura, or Guinea Corn.) Per lb.,

15 cents; per 100 lbs., \$6.

Jerusalem Corn. One of the best and surest for dry countries and seasons. Grows about three feet high, with one large head on main stalk and several smaller heads on side shoots. The grains are white and nearly flat. Per lb., 20 cents.; per 100 lbs., \$8.

Halepense. (Johnson Grass.) One of the most valuable southern fodder plants, and only recently discovered to be perfectly hardy in New Jersey. It is a rapid growing perennial. On rich soils it may be cut three or four times in a season. The best results are obtained by sowing the seed in August and September at the rate of 25 to 35 lbs. to the acre. Per lb., 20 cents; per 100 lbs., \$11.

SAINFOIN. See Onobrychis.

SCURVY GRASS. (Cochlearia officinalis.) Used as Pepper Grass. Per oz., 20 cents.

SERADELLA. A fine fodder of good quality, admitting of one, and sometimes two cuttings in one season. It succeeds well in a dry, sandy soil, and furnishes a good pasture for sheep. Per lb., 25 cents; per 100 lbs., \$12.

SNAILS. Used in the same way as Caterpillars. Per paper, 5 cents; per oz., 35 cents.

SPURRY. (Spergula arvensis.) Small annual plants succeeding best in sandy soil. It can be used in its green state or for hay. Butter made from the milk of cows fed on this is considered of a superior quality in Belgium and Holland. It serves a useful purpose, growing luxuriantly on indifferent land. Should be sown early in spring, 15 lbs., to the acre. Per lb., 20 cents; per 100 lbs., \$9.

SUNFLOWER—Large Russian. Per lb., 10 cents; per 100 lbs., \$6.

TEOSINTE. See Reana luxurians.

TEASELS-Fuller's. The heads, furnished with barbed spikes, are used for combing cloth. Teasels require a good deep soil, and should be sown about April or May. The young leaves are often used for feeding silkworms. Per lb., 25 cents; per 100 lbs., \$13.

TOBACCO SEED - Brazilian American. The finest Brazilian strain grown here; makes excel-lent cigars and delightful, aromatic pipe smoking tobacco. Per oz., 25 cents; per lb., \$2. Climax. A cross between Burley and Sterling.

Extra fine, bright variety. Per oz., 35 cents; per

lb., \$3.50.

Connecticut Seed-Leaf. The popular sort, used for eigar wrappers. Per oz., 25 cents; per lb., \$2. Conqueror. A superb bright yellow, and a healthy, vigorous grower of the best form and finest texture. It ripens early, and is easily cured to the brightest color. Per oz., 35 cents; per lb., \$3.50

Havana. Seed gathered for us from the celebrated plantations of the "Vuelto de Abajo." Per oz., 35 cents; per lb., \$3.50.

onduras. A new mahogany variety, producing the very highest quality of tobacco of this type. Honduras. A healthy and vigorous grower. Per oz., 35 cents;

per lb., \$3.50.

Oronoka, Yellow. A reliable old yellow variety, grown for more than fifty years, and improved with reference to the production of yellow stock.

Per oz., 25 cents; per lb., \$2.

Oronoka, White Stem. From the Yellow Oronoka, which it resembles. Per oz., 25 cents; per lb., \$2.

Pennsylvania Seed-leaf. Newest and best strain of this standard variety, of which more is sold and planted than of all others of the cigar kind combined. Per oz., 25 cents; per lb., \$2.

Persian Rose. Finer than the Muscatel, and may be relied upon to make the best cigar. Per oz.

be relied upon to make the best cigar. Per oz.,

25 cents; per lb., \$2.

Pryor, Yellow. Preferred by many for brights, and succeeds where the other yellow sorts fail. The west is giving it preference. Per oz., 25

rine west is giving it preference. Per oz., 25 cents; per lb., \$2.

Pryor, Blue. The genuine James River favorite. Per oz., 25 cents; per lb., \$2.

Safrano. Of a rich, saffron-yellow color, and possessing a soft, silky texture and a delightful flavor. Per oz., 35 cents; per lb., \$3.50.

Sterling. The newest and brightest of yellow type, and the earliest to ripen. Per oz., 25 cents; per lb., \$3.

per lb., \$2.

Tennessee Red. Excellent for dark strips and wrappers. Per oz., 25 cents; per lb., \$2.

Tuckahoe. Preferable to the most of the older varieties for possessing more body. Leaf long and extra fine; the perfection of a wrapper. Per oz., 25 cents; per lb., \$2.

Virginia Oak Hill Yellow. Resembles White Burley in color, and Oronoka in shape and habit.

Unsurpassed in delicacy of fibre. Per oz., 35 cents; per lb., \$3.50.

Yellow Mammoth. A new western variety of the export type. Per oz., 25 cents; per lb., \$2.

VETCHES—Spring. Sown broadcast like wheat or barley, and sometimes mixed with oats for soil-Used in France and Canada as a substitute for peas. Also ground up into flour, after which it is mixed with wheat flour for making bread. A valuable plant. Per qt., 20 cents; per bus., \$3.50.

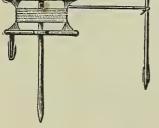
(Ziaznia aquatica.) A native or our carn states. Valuable as a for-A native of our WILD RICE. northern and western states. age plant for swamps and inundated lands. Stock of all descriptions are fond of it when green, and also when cured for fodder. The Indians of the lake region of the northwest, made great use of this Zizania as an article of food, gathering it by beating it off into their canoes, and curing it for winter food. Directions for Sowing.—"Put the rice in coarse linen or cotton bags, and sink them in water for twenty-four hours. Sow in water which is from six inches to five feet deep, in soft mud bottom. It is useless sowing this seed except on a mud bottom, or on low, marshy places which are covered with water the year round. In running water, sow as much out of the current as possible." Per lb., 20 cents; per 100 lbs., \$14.

WORMS. Used the same as Snails and Caterpillars. Per pkt., 5 cents; per oz., 30 cents.

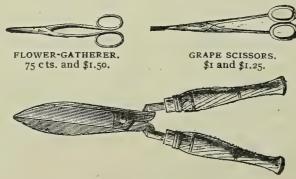
HORTICULTURAL IMPLEMENTS AND GARDEN REQUISITES.

Asparagus Knives, Best English (Saw Blade)
AMERICAN. Useful also for removing docks, dandelions, etc., from lawns 35
Atomizer, Woodason's Liquid. See cut, page 59
THE "STOTT" PATENT SPRAYER. Gives a spray resembling mist
Bellows, Woodason's Powder. For Hellebore, Tobacco Dust, etc. (See p. 59) \$1, \$2 and 3 00
" Joosten's Magazine. For distributing plant and insect powders
Bill and Brush Hooks For heavy pruning with one hand
Canes, Bamboo, 7 to 10 feet long; useful for plant sticks \$1.25 per 100, \$9 per 1,000.
Carts. No. 1. Hand Cart; tires 21/4 inches wide 28 00
No. 2. Donkey or Pony Cart; tires 1¼ to 1½ inches wide
No. 3. Farm Cart; for general use on farm or plantation; tires 4 inches wide 60 00
Dibbles, All Iron. See cut, page 59
Forks, Digging or Spading
HAY OR STABLE
Ladies' Short-Handled
Manure, Long and Short-Handled
Fumigator, Improved English (Appleby's). For fumigating with tobacco
Tebb's "Universal." See cut, page 60 2 sizes, \$1.50 to 2 00
Garden Lines, Finest Braided, 100 feet
Garden Reels, for above; of wrought iron, painted
Garden Pencils, Indelible Black
Grafting Wax, In 1/4, 1/2 and 1 lb. packages
Grass Border Shears \$2 25 to 2 75
" " with wheel
Grass Edging Knives
Grass Hooks or Sickles, Best English, welded back
Hedge Shears, English, 8 to 10-inch blade
Hoes, American Crescent, Handled
Draw or Corn
GRUB
Prong or Potato Hook
Scurfle, Dutch or Push
TRIANGULAR. Used also as Tree Scrapers
Hose Menders. Useful article for repairing rubber hose
Hyacinth Glasses, Various styles. (See Bulb Catalogue)
Knives, Asparagus, English (Saw Blade)
" American
Budding and Pruning, Best English
(FRASS EDGING
Grass Edging
PLAIN— PAINTED—
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Labels, Wooden Pot and Garden— PLAIN Per 1,000. Per 1,000. Per 1,000. Per 1,000. 4 inch. \$0 15 \$0 60 \$0 15 \$0 90 4½ inch. 15 80 20 1 00 5 inch. 20 100 25 1 35 6 inch. 20 100 25 1 35 8 inch. 40 3 50 50 4 00 12 inch. 55 4 50 65 5 00 Wooden Notched Tree—3½ inch 10 60 15 90 6 inch. 25 1 50 25 2 00 3½ inch, copper-wired 20 1 75 30 2 2 5 Lawn Rakes, English or Daisy \$2.50 to \$3 50 Steel Wire \$2.50 to \$3 50 Steel Wire 75 Wooden. In several sizes 50 cts. to 75 Lawn And Scarifying 75 Moss, Sphagnum. For potting, mulching, packing, etc.; isalmost indispensable in all greenhouse operations, and serviceable in many ways \$1.75 per bbl. Mats, Straw. For covering frames. Size, 6 ft. by 6 ft.; large enough for two frames 1 50
Labels, Wooden Pot and Garden— PLAIN—Per 1,000. Per 1,000. Per 1,000. Per 1,000. Per 1,000. \$0 15 \$0 90 4 inch. \$0 15 \$0 60 \$0 15 \$0 90 4½ inch. 15 80 20 1 00 5 inch. 20 1 00 25 1 35 6 inch. 20 1 00 25 1 35 8 inch. 40 3 50 50 4 00 12 inch. 55 4 50 65 50 Wooden Notched Tree—3½ inch 10 60 15 90 6 inch. 25 1 50 25 2 00 3½ inch, copper-wired 20 1 75 30 25 25 Lawn Rakes, English or Daisy \$2.50 to \$3 50 Steel Wire 75 Wooden. In several sizes 50 cts. to 75 Lawn And Scarifying 75 Mole Traps, Olmsted's Improved 1 50 Moss, Sphagnum. For potting, mulching, packing, etc.; is almost indispensable in all green house operations, and serviceable in many ways. \$1.75 per bbl.

IMPLEMENTS AND REQUISITES-CONTINUED.	
Plant Sticks, Round, painted green, 2, 2½, 3 and 4 feet	1.
Southern Canes, 7 to 10 feet long	
Pruner. "The Levin." The strongest hand shear extant. It is made of the finest steel. Though but	
twice the size of our cut, and only 7 ounces in weight, it is so strong that it can cut through	
half an inch of dry oak. See cut, page 59	0
Raffia, For tying	0
Rakes, French Steel. Flat teeth, not handled	
LAWN. See under Lawn Rakes.	J
Rollers, See page 57.	
Saws, Pruning, various sizes and kinds	
Scissors, Grape, Best English. For thinning the bunches	
"American	
Flower Gatherers. For cutting and holding the flowers	
Scythes, English Lawn. Cast steel, 36 and 38 inches \$2.00 and 2 25	
Scythe Stones, ROUND WELSH TALACRE \$1.50 per doz 15	
Rifles, TRIPLE EMERY-COATED	
Shears, Grass-Border \$2.25 to 2.75 """ with wheel 2.25 \$2.25 """ """	
" " with wheel :	_
Hedge. Four sizes	
Pole Pruning, Wiss'. Two sizes	0
Perfection Pruning. The best made. Four sizes. (See page 43.)	
Watch-Spring English Pruning	
Sheep. (Spring Grass Shears.) Extra quarty English, for trimining grass	
Spades, Ames' Best Cast-Steel	
Sprinkling Barrel, Hand. (See cut, page 59.)	0
Thermometers. No. 1. Seixe's Self-Registering. Registers both heat and cold, indicating exactly	
how hot or how cold it has been since last notation. It is easily reset by a horse- shoe magnet, which accompanies each instrument. In black enameled cases 2 50	0
No. 2. Porcelain Scale. 8 inches long; numbers and letters hand-painted 1 00	
No. 3. Ordinary Japanned Tin Case)
No. 4. Hot-Bed and Mushroom-Bed. Boxwood, with heavy brass tip; specially	
made for plunging. Plain red spirit columns	
Watering-Pots, French Model. Galvanized iron 6 qts., \$1.50; 8 qts., 2 00	
Weeders, Excelsion	
LAWN. For removing docks, dandelions, etc.; can also be used as an Asparagus knife 35	5
The state of the s	
SPRING GRASS SHEARS. \$1 25. ASPARAGUS KNIFE. Two sizes, \$1 and \$1.50.	
FLOWER-GATHERER. GRAPE SCISSORS. 75 cts. and \$1.50. \$1 and \$1.25.	



GARDEN REEL AND LINE. 75 cents to \$1. Line, 75 cents.



HEDGE SHEARS. \$1.50 to \$3.



GRASS EDGING KNIFE. \$1.50 to \$2.

LAWN-MOWERS.

THE NEW MODEL.

The manufacturer says: "The New Model combines every improvement that nearly a score of years of experience as Lawn-Mower manufacturers can suggest or mechanical skill devise. For simplicity, durability and quality of work, it is unequalled, while for lightness of draft it excels by a large percentage any other Lawn-Mower made. A most thorough trial is solicited." The latest and best Lawn-Mower, and will give entire satisfaction.

Net Prices, No Discount.

12-inch cut										\$6	50
14 "										7	50
16 "										8	
18 "							۰		p	9	50
20 "										10	50

NEW MODEL LAWN-MOWER.

EXCELSIOR ROLLER LAWN-MOWER.

The accompanying cut represents the Roller Mower, which has been greatly reduced in weight and draft, and is without doubt the lightest running Roller Mower made. The gears are perfectly covered, and the grass and dirt are entirely excluded. The Roller Mower does the most perfect work, and also a greater variety of work than other styles of Mowers. The Roller serves to roll down the imperfections in the lawn, such as anthills and small upheavals by frost.

Net Prices, No Discount.

10-inch cut		٠.		۰	\$8	00	ī	16-inch cut					\$11	00
12 "	-				9	00		18 "					12	00
14 "					10	00		20		_	•	-	13	00

EXCELSIOR ROLLER LAWN-MOWER.



"O. K." LAWN-MOWER.

Those who want a good, low-priced mower will find the "O. K." in every respect a serviceable machine. It is highly recommended for lightness of draft and simplicity of con. struction.

Net Prices, No Discount.

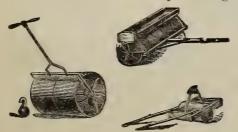
12-inch cut	Ų.			\$5	50
14 . "				6	00
16 "				6	50

Full Directions for setting-up, adjusting and using accompany each

NEW EXCELSIOR HORSE LAWN-MOWER.

ROLLERS.

The style of these indispensable garden and lawn implements is sufficiently indicated by the cuts.



With weights to keep the handle erect; a convenient style. Weight, ab't lbs. 125 Diam. Price. in. Two sections, $7\frac{1}{2}$ in. face \$7 20 15 50 20 300 400 19 00 FIELD. 32 00 With whiffle, \$2 extra; with shaft or pole, same price.

GARDEN.

SYRINGES.



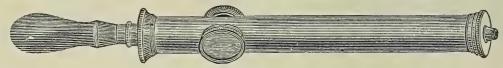
No. 1, \$2.25.

Ladies' Syringe, with One Spray Rose. Length of barrel, 121/2 inches; diameter, 1 5-16 inches.



No. 2, \$3,75.

Ladies' Syringe, with Jet and Two Spray Roses; the two roses when not in use are screwed on the sides of the barrel, as shown in cut. Length of barrel, 14½ inches; diameter, 15-16 inches.



No. 3, \$5.50.

Best Plate Valve Syringe, large size, with One Stream and Two Spray Roses, with side pieces on barrel. Length of barrel, 18 inches; diameter, 1½ inches.



No. 4, \$6.00,

Best Conical Valve Syringe, large size, with One Stream and Two Spray Roses, which are placed, when not in use, in the handle of syringe. The handle is strongly mounted with a solid brass cap and ring. When the finest spray is used the water should be very clean. Length of barrel, 18 inches; diameter, 1½ inches.



No. 5, \$6.00.

Best Conical Valve Syringe, large size, with One Stream and Two Spray Roses. This syringe is in general use with horticulturists in the United States and Europe. With side pieces on barrel. Length of barrel, 18 inches; diameter, 1½ inches.



No. 6, \$7.00.

Best Conical Valve Syringe, large size, with One Spray Rose and Goose-Neck Angle Joint, turning in all directions, for washing the under surface of the leaves of plants and flowers, cleansing them from insects, etc. Length of barrel, 18 inches; diameter, 1½ inches.



Eclipse Combined Syringe and Force Pump.



Rubber Sprinkter. \$1



Nº I.ANGL

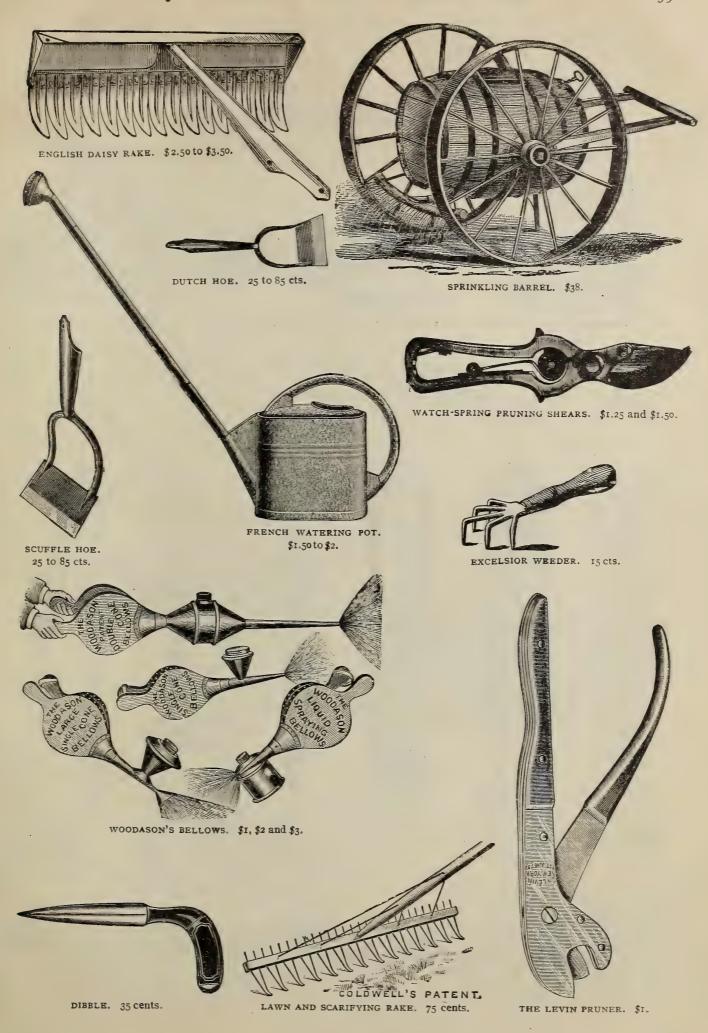
Rubber Sprinkler, Angle-Neck. \$1.

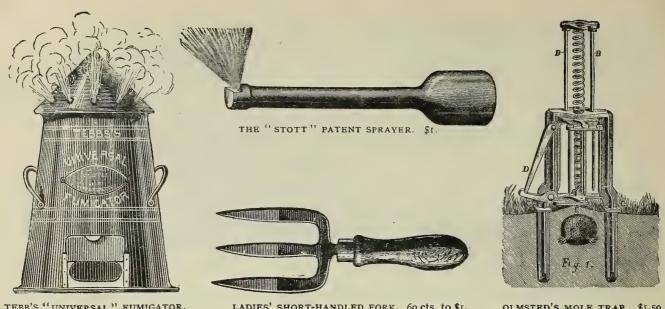
The Eclipse Combined Syringe and Force Pump.—This is an excellent combination, easily worked and very powerful, throwing a continuous stream for 50 feet with as little exertion as is required for the smallest syringe. By means of the hose attached, water, etc., may be drawn from a tank or stream, thus insuring a continuous flow. With the elbow joint attached, it is the most perfect apparatus for cleaning the under surface of leaves, etc. With 4 feet of hose, complete, \$6; fixed elbow joint, 75 cents. Large size syringe, \$7.75; fixed elbow joint, \$1.

Rubber Sprinkler, for florists' use and window gardening, \$1.

Angle-Neck Rubber Sprinkler, \$1.

Woodason's Atomizer, for the application of all liquid insecticides, \$2.

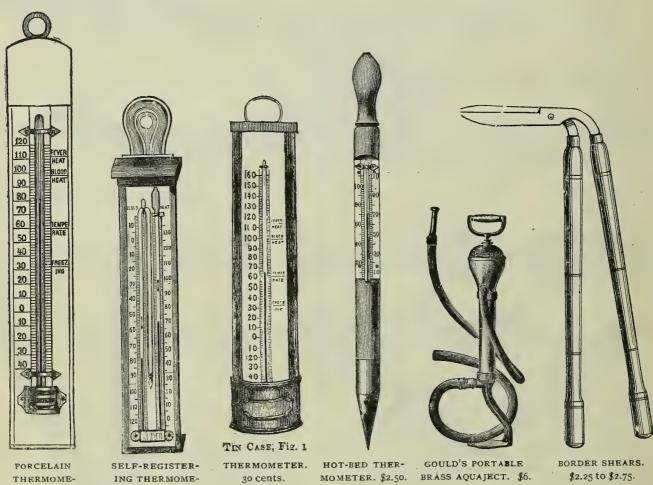




TEBB'S "UNIVERSAL" FUMIGATOR. \$1.50 to \$2.

LADIES' SHORT-HANDLED FORK. 60 cts. to \$1.

OLMSTED'S MOLE TRAP. \$1.50



TER. \$1.

TER. \$2.50.



TRIANGLE HOE. 50 to 75 cts.



CAST-STEEL GARDEN TROWEL. 50 to 60 cts.

THE "PLANET JR." SEED DRILLS AND WHEEL HOES.

These perfect tools are famous the world over. We cannot illustrate the whole line, which includes Horse Hoes, Harrows, Celery Hillers, Potato Diggers, etc., but will send free a finely illustrated book. It is invaluable to every grower of seeds. Send at once for it.

The "Planet Ir." Hill-Dropping Seed Drill.



scription The "Planet Jr." Combined Drill.

HILL-DROPPING SEED DRILL

DOUBLE WHEEL HOE.

This is unquestionably the most popular and perfect machine of its kind made. Has a seed Drill, and is the same as the No.2, except in size; holds one quart. It has all the tools shown in the cut. The rakes are invaluable in preparing the ground for planting, cultivating, etc. The hoes work closely and safely all rows up to 16 inches wide at one passage. The plow opens furrows, covers them, hills, plows to and from, etc. Cultivator teeth are admirably adapted to deep mellowing of the soil. Taken as a whole, this combined tool is the nearest approach to perfection for use in a garden that can be devised in a single implement. Price, \$10. SEED AND FER-TILIZER DRILL COMBINED.

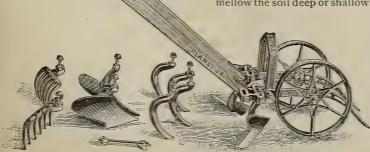
The "Planet Jr." No. 2 Drill.



The "Planet Jr." Double-wheel Hoe.

This tool is invaluable for all who raise onions This tool is invaluable for all who raise onions or vegetables on an extensive scale, as it does the work of six to ten men with ordinary hand hoes.

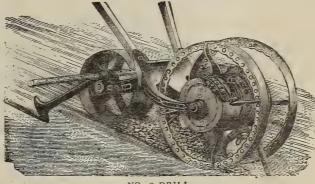
It can be used straddle of the rows or between rows, as desired. The rakes level the ground for planting, cultivating, cover seed, etc. The hoes cut close and clean, killing everything they meet. The cultivator teeth mellow the coil deep or shallow. mellow the soil deep or shallow.



They are useful for marking out. The plows lay out deep furrows and cover them, hill up or plow away as desired. The leaf guards allow cultivation of large plants, such as beets, carrots, parsnips, beans and peas. No vegetable grower can afford to be without it.

Price complete, \$7.00. Price plain (one pair of hoes only), \$4.

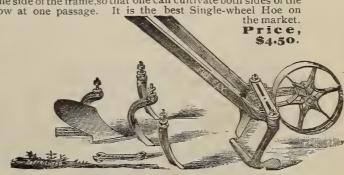
This simple and accurate Drill has been the standard machine for years. It holds two and one-half quarts. Sows all garden seeds accurately in any desired thickness or depth; opens, drops, covers, rolls down and marks the next row, all at one passage. It is especially good for sowing difficult seeds, such as carrot, parsip, beet and salsify, and delicate seeds like cabbage. This machine and the "Planet Jr." Double-wheel Hoe make an excellent combination for market gardeners, and especially for onion growers. **Price**, \$7.50.



NO. 2 DRILL

The Fire-fly Single-wheel Hoe.

Great strength, easy running, simple combinations and variety of attachments are striking features of this favorite. The full equipment is shown in the cut. The wheel has an extra broad face and is readily raised or lowered and can be attached one side of the frame, so that one can cultivate both sides of the row at one passage. It is the best Single-wheel Hoe on the market.



FIRE-FLY SINGLE-WHEEL HOE

FERTILIZERS.

These Fertilizers are specially manufactured for us, and are reliable and efficient for the purposes specified. Bone basis guaranteed.

Great care should be taken that all Fertilizers are well incorporated with the soil, so as not to come in contact with and destroy the vitality of the seed sown.

THORBURN'S COMPLETE MANURE.

Guaranteed to contain ammonia, 3 to 3½ per cent.; phosphoric acid, all soluble, 8 to 10 per cent.; sulphate of potash, 7 to 7½ per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc.

Adapted for use on all crops, such as corn, tomotoes, potatoes, peas, beans and early vegetables, and is

especially suited for grain crops and for seeding down grass.

Price—In 167-lb. bags, per ton, \$35; single bags of 167 lbs., \$3.50; per bag of 75 lbs., \$2; 50 lbs., \$1.50; 25 lbs., \$1; 10 lbs., 50 cts.

THORBURN'S POTATO MANURE.

Guaranteed to contain ammonia, $4\frac{1}{2}$ to 5 per cent.; phosphoric acid, all soluble, 7 to 9 per cent.; actual potash, 9 to 10 per cent.; sulphate of magnesia, soda, lime, sulphuric acid, etc.

This manure is for special use on the potato crop, and is also adapted for sweet potatoes, vines and fruit

trees, and all leguminous plants.

Price—In 167-lb. bags, per ton, \$43; single bags of 167 lbs., \$4; per bag of 75 lbs., \$2.50; 50 lbs., \$1.75; 25 lbs., \$1; 10 lbs., 50 cents.

THORBURN'S LAWN FERTILIZER.

Guaranteed to contain ammonia, 5 to 6 per cent.; phosphoric acid, all soluble, 5½ to 7 per cent.; actual potash, 7½ to 8½ per cent.; lime, sulphate of magnesia, soda, sulphuric acid, etc.

Specially prepared for lawns and meadows as a top dressing, imparting to grass a rich green color and

vigorous growth.

Price—In 167-lb. bags, per ton, \$43; single bags of 167 lbs., \$4; per bag of 75 lbs., \$2.50; 50 lbs., \$1.75; 25 lbs., \$1; 10 lbs., 50 cents.

Quantity required per acre on soils not impoverished, about one-half ton.

OTHER FERTILIZERS.

Ground Bone Meal	5 lbs., 25 cts.; 50 lbs., \$1.25; 100 lbs., \$2; per ton, \$32.
" " No. 3	per 100 lbs., \$2.75; per ton, \$40.
Crushed or Coarse Bone	
Guano, Peruvian 2-lb. boxes, 25 cts.;	
Unleached Wood Ashes pe	r ton, \$22. In less quantities, \$2.50 per bag of 167 lbs.
Thorburn's Floralis or Concentrated Plant Food.	
Sheep Manure, Pulverized. Excellent for lawns. 5-lbs.	, 30c.; 25-lbs., \$1.25; 50-lbs., \$2; 100-lb. bag, \$3; ton, \$45.

INSECTICIDES. (INSECT DESTROYERS.)

Fir-Tree Oil. Destroys all plant insects without injuring the plant. Dilute in the proportion of one pint to twenty gallons of water ½-pt., 40 cts.; pt., 75 cts.; qt., \$1.25; ½ gal., \$2.25; gal., \$4.

Gishurst's Compound. A certain remedy for greenfly, scale, mealy bug, etc. Excellent for greenhouse use. Full directions for use on each box . per lb. box, 50 cts.

Hellebore White, Powdered. An excellent protection from currant worms, grape slugs, etc. May be applied dry by dusting on with bellows, or as a liquid mixed at the rate of 1 lb. to 30 gallons of water . \$0.30 Paris Green, Pure. Mixed at the rate of 1 lb. to 200 gallons of water it will prove effective against all

Little's Antipest. A sure destroyer of all insect pests. It is non-poisonous and harmless to vegetation.

London Purple. As destructive to insects as the Paris Green, and is more easily dissolved

Slug Shot (Hammond's). Excellent for destroying cabbage, turnip and beetfly, potato bugs, current worms, etc. Prepared ready for use . 5-lb. package, 30 cents; 10-lb. package, 50 cents; 100 lbs., \$4.

25

Sulphur, Powdered. Valuable for protecting against mildew on grapes, roses, etc. 10 lbs., 60 cts. . . **Tobacco Soap.** Dissolve in proportion of 2 ounces to a gallon of water and apply with a syringe or atomizer. It will destroy rose-slugs, aphides, greenfly, bark-lice, etc. per ½ lb. tin, 25 cts. .

Tobacco Dust. If dusted on while the foliage is moist it destroys rose-lice, cabbage and turnip fleas, etc.

Tobacco Stems. For fumigating plants infested with greenfly, etc. . 100 lbs., \$2; bales of about 250 lbs., \$4.

Whale-Oil Soap. For washing trees and destroying all insects on the bark. Mixed at the rate of 1 lb. to 4 gallons of water, it will rid cabbage, rose bushes, peach trees, etc., of the aphides that so often infest them... In boxes of 2 lbs., 30 cts.; 5 lbs., 70 cts.; 10 lbs., \$1; 20 lbs., \$1.75; 100 lb. keg, \$5.50.

Bordeaux Mixture. For all fungoid diseases, such as mildew and the various rots of the grape. It is prepared as follows: Dissolve 6 lbs. sulphate of copper (blue vitriol) in 6 gallons of hot water; in another vessel slake 4 lbs. of fresh lime in 6 gallons of cold water. When both are cool, pour the two mixtures together and add 10 gallons of water. This then, when all is thoroughly mixed, is ready for use, and may be applied at any time without injury to the foliage.

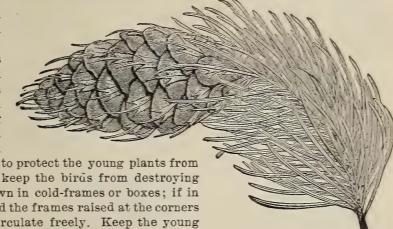
Price for blue vitriol varies from 10 cts. to 15 cts. per lb., in quantities.

TREE AND SHRUB SEEDS.

HOW TO GROW THEM.

In order to preserve seeds of Conifers and other Evergreen Trees it is best to keep them in perfectly

dry sand until the time of sowing. For this latitude, the seeds should be sown thinly, as early in the spring as the ground can be worked, in beds of fine, sandy loam. Cover to the depth of about the thickness of the seed, and press the beds gently with the back of the spade to firm the earth around the seeds. Great care must be taken not to give too much water, as the young plants damp off very easily. Water with a very fine rose, but never so that the ground



PICEA DOUGLASII.

becomes soggy. Some shade must be used to protect the young plants from the hot, drying sun and winds, and also to keep the birds from destroying them. Seeds of the rarer sorts may be sown in cold-frames or boxes; if in cold-frames the sashes should be shaded and the frames raised at the corners three or four inches to allow the air to circulate freely. Keep the young plants well weeded, and allow them to remain from one to two years before transplanting.

The propagation of Deciduous Trees from seeds is less difficult than that of Evergreen species, a little attention only being required to sow at the proper season to insure success. Acorns, Hickory-Nuts, Chestnuts and Walnuts should be planted in autumn, or kept during the winter in sand or moss. They shrivel up by too long exposure to the air, and many of them lose their power of vegetating. Those seeds with hard shells, like the Locust, Gymnocladus, etc., should be planted in autumn, or placed in boxes with sand and exposed to frost before planting. They may not vegetate till the second year after planting, but if these seeds are received too late in the spring to expose them to the action of the frost, they may be put into a vessel of hot water for an hour or so before planting. American Elm, Silver Maple and a few other sorts ripen their seeds early in summer, and, if gathered and planted soon after they fall from the tree, will make fine plants the same season. The seeds of other Deciduous Trees and Shrubs should be planted from the middle of April to the middle of May, in drills about two feet apart and covered about half an inch in depth, according to size.

EVERGREEN TREE SEEDS.

We do not sell Tree or Shrub seeds in quantities of less than an ounce of any one variety, except those quoted at over twenty-five cents per ounce; of these, twenty-five cent packets may be ordered.

Under the new nomenclature some species formerly attached to Abies have been placed under Picea, which see.

Ahies	halsamea	Balsam Fir	Per oz.	Per lb.
11		Lovely Silver Fir. 250 feet high		5 00
٠,		Leafy-bracted Silver Fir. Massive, deep green foliage		0 00
••		Short-leaved Fir		7 00
		Hemlock Spruce		4 00
**		California White Silver Fir		5 00
••		Japan Silver Fir. Very hardy; graceful pyramidal form.		3 50
٤.	grandis	Great Silver Fir of Oregon	35	3 50
••	magnifica	Superb Silver Fir. 200 feet high; stately habit	60	6 00
	macrocarpa	The Great-coned Spruce of California	. 40	4 00
••		A new Japanese Silver Fir		8 00
. 6	Nordmanniana	Nordmann's Fir	. 25	2 50
23	nobilis	Noble Fir, from California	60	7 00
8.8	pectinata	European Silver Fir	. 10	60
••	Pinsapo	Spanish Fir	. 25	2 50
••	sachalinensis	A tall pyramidal species from Japan	. 80	10 00
14		A tall, slender, handsome tree, upwards of 100 feet high		8 00
Arcto		Great-berried Manzanita		1 50
		Erect Manzanita		1 50
				3 00
		Bear-berry		
A == 1=				4 00
WZ216		Smooth Azalea		7 00
	calendulacea	Flame-colored Shrub (in pods)	. 40	4 00

EVERGREEN TREE SEEDS-CONTINUED.

Annalea Vaseyi	EVERGREEN TREE SEEDS—CONTINUED.	Dom on	D 11
Viscosa Visc	Azalea Vaseyi A beautiful native variety from North Carolina (pods)	\$1 00.	Per ID.
Cadrus Atlantica argentes	" viscosa White Swamp Honeysuckle (pods)	40	\$4.00
Cedrus Atlantica argentea Mount Atlas Cedar 30 30 "Dodara Deodara - Deodar or Himalayan Cedar 4 40 "Libani Codar of Lebanon cones, 25 cents each 40 40 "Distrea Japan Cypress. To 10 100 feet 60 6			
" Libani Deodar of Lébanon cones, 25 cents each. 40 40 " Libani Codar of Lébanon cones, 25 cents each. 40 40 Chamsecyparia (Rotinospora)obtusa Japan Cypress. 70 to 10 to			
Libani	Cettrus Attantica argentea	30	
Chammecyparis (Ectinospora) obtusa Japan Cypress. A much smaller variety than the above 60 800 60 my pisifera Japan Cypress. A much smaller variety than the above 60 800 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 60 00 70 00 <td>Deodara Deodar or Himalayan Cedar</td> <td>40</td> <td></td>	Deodara Deodar or Himalayan Cedar	40	
" pisifera Japan Cypress. A much smaller variety than the above 60 30 30 Cotoneastee bustfolia Hardy evergrees Box-leaved shrub 30 30 00 Cryptomeria Japonica Japanese Cedar. Attractive: grows rapidly to great height 20 1 50 Cuynessas bonizontalis Horizontal Cypress 40 40 " Guadalupensis From California 40 40 " Guadalupensis From California 40 40 " MacNabiana Chaylo 10 e2 feet high; dense foliage; fine pryamidal form 30 30 " MacNabiana Only 10 to 20 feet high; vigorous, vory hardy 20 12 feet " macrocarpa Monterey Cypress. 60 feet high; vigorous, vory hardy 20 12 feet " thyoides White Cedar (pods) 30 30 Juniperus communis European Junipers 10 50 " thyoides White Cedar 10 50 Juniperus communis European Junipers 10 50 Juniperus communis European Junipers 10 10 Libocadua decureus			4 00
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Cryptomeria Japonica Japanese Cedar Attractive; grows rapidly to great height. 20 1 50 Cupressas horizontalis Horizontal Cypress 40 40 "Guadalupensis From Culifornia 40 40 "Goveriana Goveriana 40 40 "MacNabiana Lawson's Cypress. The most graceful of the Cypresses. 40 40 "MacNabiana Chayon's Cypress. 60 feet high; vigorous, very hardy 30 30 "MacNabiana Only 10 to 20 feet high; dense foliage; tine pryamidal form 30 30 "macrocarpa Monterey Cypress. 60 feet high; vigorous, very hardy 30 12 "sempervirens Evergreen Cypress. 60 feet high; vigorous, very hardy 30 30 Junipers Communis Evergreen Cypress. 60 feet high; vigorous, very hardy 30 30 Junipers Cowyeedrus Shall 40 40 40 Juniper Cowyeedrus Shall 40 40 40 Libocedrus Gectar Cedar 10 <td>" pisifera Japan Cypress. A much smaller variety than the above .</td> <td>60</td> <td>6 00</td>	" pisifera Japan Cypress. A much smaller variety than the above .	60	6 00
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EVERGREEN TREE SEEDS-CONTINUED.		
	Per oz \$1 00	Per lb.
sempervirens		4 00
Taxus baccata European Yew. Lives from 2,000 to 3,000 years	. 25	1 50
" cuspidata Japanese Yew	. 1 00	10 00
Thea viridis	. 20	2 00
Thuja aurea Golden Arbor-vitæ	. 20	1 50
" articulata Jointed " The Arar Tree	. 75	
" occidentalis American "	. 25	2 50
· orientalis Chinese · · · · · · · · · · · · · · · · · ·	. 15	1 00
·· compacta Compact ··		2 00
" gigantea	. 60	6 00
"Tatarica	. 30	3 00
Thujopsis dolobrata Japanese Thuja. A beautiful pyramidal tree; fine for lawns		7 00
" Standishii From Japan		10 00
Torreya Californica	25	2 00
nucifera Japanese Nutmeg		8 00
Yucca baccata		4 00
"filamentosa Thready Yucca; Adam's Needle		5 00
" gloriosa		5 00
"Whipplei Whipple's Yucca		4 00
DECIDUOUS TREE AND SHRUB SEEDS.		
We do not sell Tree or Shrub seeds in quantities of less than one ounce of any one v		except
those quoted at over twenty-five cents per ounce; of these, twenty-five cent packets may be order		
Acer campestre European Field Maple	Per oz.	Per lb.
" circinatum Round-leaved Maple		1 50
" glabrum Oregon Maple		2 00
Japonicum Japanese Maple		6 00
" macrophyllum Large-leaved Maple		75
" platanoides Norway Maple. Very handsome and hardy species		50
" pseudo-platanus The Great Sycamore Maple	. 10	50
" rubrum	. 20	2 00
" spicatum		2 00
Actinidia arguta A beautiful Japanese climber, with white, fragrant flowers		
Æsculus flava Sweet or Yellow Buckeye		25
" glabra Ohio Buckeye		25
Ailantus glandulosus Tree of Heaven. Of tropical appearance; fine for parks .		1 25
Alnus communis		75 ~~
THEORIGA		75
· · · Oregona · · · · · · · Oregon Alder · · · · · · · · · · · · · · · · · · ·		8 00
Amelanchier Canadensis Shad-bush (Service-berry)		2 00
Amorpha fruticosa Bastard Indigo. 6 to 9 feet; elegant leaves and purple flowers		1 00
Ampelopsis Veitchii Japan or Boston Ivy. The best vine for covering houses .		1 50
quinquefolia American Ivy, or Virginia Creeper		1 50
Amygdalis vulgaris		30
Andromeda arborea Tree Andromeda (Sour Wood)	. 40	4 00
'' ligustrina	. 20	
·· Mariana Stagger-bush (pods)		
racemosa Pepper-bush (pods)		
Anona squamosa The Sweet Sop		1 50
Arbutus Menziesii Madrona Tree		3 00
"Unedo Strawberry-bush. Bears fruit resembling a strawberry .	. 20	2 00
Asimina triloba	. 15	75
Baccharis halimifolia Groundsel-tree. 6 to 12 feet high (in pods) Berberis aquifolium		3 00 2 00
" nervosa Nerve-leaved Barberry		6 00
Thunbergii Japanese Barberry		10 00
vulgaris Common Barberry		1 00
" purpurea Purple-leaved Barberry		2 00
Betula Americana alba White American Birch		2 00
alba White European Birch		50
" lenta Mountain Mahogany; Sweet or Cherry Birch		1 50

DECIDUOUS TREE AND SHRUB SEEDS-CONTINUED.		D 11
Betula populifolia Poplar-leaved Birch	er oz.	
"papyracea Paper Birch. The Indians used its bark for making canoes .	20	2 00
Broussonetia papyrifera Paper Mulberry	25 25	$\begin{array}{c} 2 \ 50 \\ 2 \ 50 \end{array}$
Calycanthus Floridus Sweet-scented Shrub, or Carolina Allspice	. 15	1 00
occidentalis Western Allspice. Larger-growing than the above	50	5 00
Camellia Japonica From Japan	15	1 50
Carpinus Americana Blue or Water Beech	20	1 50
Castanea Japonica Large Japan Chestnut. Fine spreading tree	10	75 35
Catalpa bignonioides Flowering Catalpa	15	1 25
" speciosa	15	75
"Teas' Hybrid	25	2 50
Ceanothus divaricatus Branching Red Root	50	
" integerrimus Entire-leaved Redroot	50 50	
" velutinus Soft-leaved Redroot	50 50	
Celastrus scandens	15	1 50
Celtis australis European Nettle-tree	20	1 00
" occidentalis Sugarberry or Hackberry	20	1 50
Cephalanthus occidentalis Buttonball Bush	15	1 00
Cercis Canadensis American Judas Tree. Irregular habit, but fine foliage European Judas Tree. A small, handsome foliage tree	15 20	1 50 1 00
Ceratonia Siliqua St. John's Bread	15	1 00
Chionanthus Virginica Virginian Fringe-tree	40	4 00
Citrus trifoliata Small, graceful orange tree from Japan	25	2 50
Cladrastis tinctoria Yellow-wood. Beautiful and ornamental lawn tree	75	7 00
Clematis viticella Purple Virgin's Bower. One of the best old sorts	20	1 50 1 50
"flammula White Virgin's Bower	20 20	1 50
"Virginiana Virgin's Bower	20	2 00
Clethra alnifolia Sweet Pepper-bush (pods)	20	2 00
Colutea arborescens Shrubby Bladder-Senna. Yellow flowers	20	1 00
Cornus alternifolia	20	1 50
" brachypoda Japanese Dogwood	30 30	3 00
"Florida Flowering Dogwood	10	60
" mascula Cornelian Cherry	10	1 00
" Nuttallii Nuttall's Dogwood Box Tree	20	2 00
' paniculata Panicled Cornel	15	1 50
" sanguinea	10	1 00
" sericea	15 15	1 50 1 50
Coronilla Emerus	30	3 00
Cratægus coccinea	10	75
" Crus-Galli Cockspur Thorn	15	1 50
" Oxyacantha	10	50
"tomentosa Black Thorn	10 20	1 00 1 50
"Laburnum Laburnum (Golden Chain)	10	75
Daphne Mezereum Mezereon	50	
Deutzia scabra	30	3 00
	2 00	1 00
Diospyros Lotus	10 15	1 00 1 50
Mexicana Mexican Persimmon	20	2 00
"Virginiana Wild Persimmon	15	75
Elæagnus angustifolia Oleaster. Highly fragrant flowers, abounding in honey	20	2 00
Eriobotrya (Photinia) Japonica	20	2 00
Frythea armata (Brahea armata) . From California	30 30	3 00
Fucalyptus globulus	40	4 00
Euonymus alata From Japan	25	2 50
"Europæa European Burning-bush. Has pale scarlet fruit	10	1 00
Fagus sylvatica European Beech	10	30

DECIDUOUS TREE AND SHRUB SEEDS-CONTINUED. . \$0 15 10 10 75 excelsior The Common or European Ash. Grows 80 to 100 feet . . 66 10 50 10 50 2 00 60 66 60 20 2 00 Shallon California Winterberry; edible fruit 40 4 00 3 00 30 3 00 3 00 30 Genista scoparia Scotch Broom. Slender, silky branches; bright yellow flowers 50 10 tinctoria Green Broom. Bears yellow flowers in profusion all summer juncea Rush-leaved Broom. Large, yellow, fragrant flowers . . . Ginkgo biloba (See Salisburia). 40 10 15 1 00 64 Japonica Japanese Honey Locust 3 00 Gymnocladus Canadensis Kentucky Coffee Tree. Rapid grower; fine feathery foliage . 10 75 30 3 00 2 50 Virginica Witch-hazel. Covered with curious yellow flowers in fall . 4 00 1:00 15 15 1 25 Hydrangea radiata Wild Hydrangea, from North Carolina 25 2 50 75 Ilex aquifolium European Holly. The handsomest of Evergreens 20 75 50 5 00 " opaca American Holly 75 1 25 Itea Virginica Virginian Willow. Dense spikes of small white flowers . . 2.50 Juglans cinerea Butternut per qt., 10 cts.; per bus., \$2.50. nigra Black Walnut per qt., 10 cts.; per bus., \$2.50 . 66 Sieboldi From Japan 75 10 75 10 40 10 00 Kelreuteria paniculata Chinese Bladder-nut. Very handsome when in flower . . . 1 00 10 00 1 00 Europea European Larch leptolepis Money Pine of Japan. Hardy, rapid grower; fine, erect form 8 00 20 1 50 10 75 Leucothæ recurva Attractive shrub from North Carolina 40 1 00 1.00 3 50 Liquidambar styraciflua Sweet Gum tree. Of very elegant appearance Liriodendron tulipifera Tulip-tree. Fine, tall pyramidal tree, with fragrant flowers 10 50 10 50 15 1 00 50 5 00 2 00 20 2 00 1 00 Menispermum Canadense Moonseed. Valuable for covering bowers, etc. 1 00 10.00 Morus alba White Mulberry. The leaves are the food of the silkworm . 20 1 25 2 00 25 2 00 2.00 nigra-vera Black Mulberry. The Sycamore tree of the Bible 6.00

DECIDUOUS TREE AND SHRUB SEEDS-CONTINUED.		
Myrica asplenifolia Sweet Fern		Per 1b. \$5.00
"Californica Bayberry or Wax-Myrtle of California	40	4 00
" cerifera	15	, 1 00
Tuota,	75	
Myrtus communis	15	1 50
Nuttallia cerasiformis Nuttall's Shrub; beautiful	20 30	3 50
Nyssa multiflora Sour Gum tree, or Tupelo	. 15	50
Olea Europæa	10	75
Oreodaphne Californica Californian Laurel	25	2 00
Paliurus aculeata Christ's Thorn. A branching spiny shrub	15	60
Pardanthus Chinensis Blackberry Lily	40	4 00
Parkinsonia aculeata Jerusalem Thorn	20	2 00
Paulownia imperialis Pawlownia, or Empress-tree Philadelphus coronaria Mock-Orange, or Syringa	15	1 25
Photinia arbutifolia	25 20	2 50 - 1 50
" (Eriobotrya) Japonica Japan Medlar or Loquat	20	2 00
Pistacia vera Pistachio-nut. Grown for its edible nuts	15	1 25
Platanus occidentalis Buttonball or Plane-tree	10 -	50
Populus alba Abele Tree	20	1 50
"tremulaAspen Poplar	20	1 50
Prunus Caroliniana Cherry Laurel	40	4 00
" Lusitanica Portugal Laurel	10.	75
marrima	20	2 00
monis Oregon wild Cherry	25	2 50
" Pennsylvanica Wild Red Cherry	20	2 00
" Virginica Choke Cherry	10 10	40
Ptelea trifoliata	20	1 00
Pyrus arbutifolia Chokeberry	30	3 00
"rivularis Oregon Crab Tree	00	10 00
Quercus—Oaks of various sorts in season, from 25 cts. per lb. to \$4 per bushel.		
Rhamnus catharticus Buckthorn. Extensively used for hedges	10	1 00 -
" Carolinus Alder Buckthorn. Shining green leaves and scarlet flowers .	10	1 00
"Californicus Californian Buckthorn	50	5 00
I dishiana	40	4 00
Rhododendron Californicum		12 00 8 00
" maximum Great Laurel. 6 to 20 feet	75	
Washingtonianum . Washington Rose-Bay		10 00
Rhus Cotinus Smoke-tree or Venetian Sumach. 6 feet	25	2 00
" copallina	20	1 50
"glabra Smooth Sumach. Gray foliage and red berries	20	1 50
"integrifolia California Sumach. 5 to 10 feet	20	1 50
" Laurina From California	20	2 00
"venenata Poison-Sumach. Also called Poison-Elder	20	1 50
Ribes bracteosum	75	8 00
" cereum From Washington	60 60	6 00
" sanguineum Red Flowering Currant	60	6 00
Robinia pseud-acacia Yellow Locust. Rapid grower; fine for hedges	10 "	40
Rosa canina	. 10	40
	10	-10
	10 10	1 25
" blanda Early Wild Rose	10 10 10	1 25 1 25
" blanda Early Wild Rose	10 10	
" blanda	10 10	1 25
"blanda Early Wild Rose "Caroliniana Swamp Rose 5 to 10 feet; flowers rosy carmine "rugosa White Ramanas Rose A beautiful hardy variety from Japan "lucida Dwarf Wild Rose "rubiginosa Sweetbriar Delightfully fragrant leaves	10 10 1 00 15 15	1 25 10 00 1 50 1 50
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" blanda . Early Wild Rose . " Caroliniana . Swamp Rose . 5 to 10 feet; flowers rosy carmine . " rugosa . White Ramanas Rose . A beautiful hardy variety from Japan . " lucida . Dwarf Wild Rose . " rubiginosa . Sweetbriar . Delightfully fragrant leaves . " setigera . Prairie or Climbing Rose . Pale rose flowers . " hybrida . Hybrid Rose, Mixed . " gymnocarpa . From Washington . Rubus Nutkanus . Salmon-berry " leucodermis . White-skinned Raspberry	10 10 1 00 15 15 15 40 40 1 00 60	1 25 10 00 1 50 1 50 1 50 4 00 4 00 10 00 6 00
" blanda Early Wild Rose . " Caroliniana Swamp Rose. 5 to 10 feet; flowers rosy carmine . " rugosa White Ramanas Rose. A beautiful hardy variety from Japan lucida Dwarf Wild Rose . " rubiginosa Sweetbriar. Delightfully fragrant leaves . " setigera Prairie or Climbing Rose. Pale rose flowers . " hybrida Hybrid Rose, Mixed . " gymnocarpa From Washington . Rubus Nutkanus Salmon-berry .	10 10 1 00 15 15 15 40 40 1 00 60	1 25 10 00 1 50 1 50 1 50 4 00 4 00 10 00

DECIDUOUS TREE AND SHRUB SEEDS-CONTINUED. Per oz. Per lb. Salisburia adiantifolia Maidenhair Tree, or Ginkgo. Graceful, fern-like foliage . . \$0 15 \$1 00 1 00 20 1 00 1.50 3 00 30 3 00 15 1 00 Sophora Japonica Japanese Sophora. Large tree with elegant foliage 15 1 00 " pendula " Drooping Sophora. A handsome weeping tree . . 15 1.00 1 50 2.3 4 00 Spiræa Douglasii Douglas' Rose-colored Spiræa. Erect, handsome shrub . . 6 00 60 6.00 Staphylea pinnata..... European Bladdernut, 6 to 8 feet; white flowers..... 15 1 25 5 00 Stuartia monadelpha...... From Japan 50 25 2 50 Japonica Beautiful White-flowered Japanese shrub 2 50 Japonica New species of Lilac from Japan; foliage 4 to 6 inches long . 1 20 00 10 50 25 2 50 10 75 " argentea Silvery Linden. White bark and silvery foliage 10 75 Europæa European Linden or Lime tree. Very stately, 60 to 100 feet 10 75 10 75 grandiflora Large-leaved Linden. Handsome variety of the above . . . 15 1.50 Ulmus campestris Common Elm. Height, 125 feet 15 1 00 1 00 15 60 10 Ungnadia speciosa...... Texan Horse Chestnut 20 1.50 30 3 00 3 00 30 15 1 00 2 00 Lantana Common Wayfaring Tree. 10 to 20 feet 66 25 2 50 66 20 1.50 6.6 30 3 00 40 4 00 15 1.00 prunifolium Black Haw.......... 15 1 25 10 1 01 Virgilia lutea See Cladrastis. 1 00 20 2.00 Sinensis Chinese Wistaria. A magnificent climbing shrub 40 4 00 " alba White Wistaria. A white-flowered variety 75 8 00 1 25 15 Zanthoxylum fraxineum.... Toothache Tree............. 2 50

GRAPE SEEDS.

	NATURAL	VARIETIES		1	CULTIVATED VARIETIES.	
Vitis	Æstivalis		Per oz \$0 20		Per oz. Per lb	0
	Californica				Clinton 10 1 00	
4.6	candicans		. 40	4 00	Concord	0
6.6	cordifolia		. 25	2 50	Cynthiana 20 2 00	0
6 6	Labrusca	,	. 25	2 50	Elvira	5
66	Lincecumii		. 20	2 00	Herbemont	0
6.6	monticola		. 20	2 00	Ives' Seedling 10 1 0	0
6.4	riparia		. 20	2 00	Lenoir or Jacques 20 2 0	0
6.6	vulpina		. 30	3 00	Marion 10 1 0	0
	-				Noah	0
					Norton's Virginia 15 1 2	5

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FLOWER SEEDS.

PRACTICAL DIRECTIONS FOR CULTURE, TREATMENT, ETC.

HARDY ANNUALS (hA). -Sow in April or May, according to the latitude, in shallow boxes or pots

placed in a warm window, a hotbed, or, if possible, in a greenhouse. A second sowing ought to be made from two to four weeks after, for a succession, as well as to provide against failure the first time. For sowing seeds in, there is nothing better than shallow boxes from two to three inches deep, and of any convenient size. The most suitable soil in which to sow seeds of all the smaller kinds is a very fine, rich, sandy loam; if some fine charcoal can be mixed with it, it will be beneficial. The soil from old hotbeds is excellent, or sods from an old pasture, piled up and allowed to rot for two or three years, and then mixed with a little old stable manure and sand. The selection of a proper soil in which to sow fine seeds is very important, as upon this depends



PANSIES.

the success or failure of them. After the seeds are up, care must be taken to give them plenty of air and moisture, and yet not too much water, or they will "damp off." When the young plants are well out of the seed leaf, they must be transplanted to new boxes. If pots two inches or more in diameter can be had, set out from three to a dozen or more of the young seedlings around the edges of the pot, so that as soon as the ground is warm enough they may be easily turned out and planted singly, as by that time they will have made good roots. Where the pots cannot be had, boxes, tin cans, etc., may be substituted; or a cheap and effective plan is to take out the inside of a potato or turnip, leaving a shell half an inch thick. After filling these with the compost above referred to, set out the seedlings in them, and place the whole in boxes, filling in the spaces between the potatoes or turnips with soil. When the plants are ready to set in the open ground, it is an easy matter to transplant them, and as the decay of the turnips or potatoes affords nourishment to the young plants, a double purpose is served in using them.

A common mistake in sowing flower, as well as other seeds, is in covering too deep. As a general rule, cover only to the depth of the thickness of the seeds, or with medium-sized seeds, like Balsams, Zinnias, etc., a half an inch or so is none too much. Such fine seeds as Portulacas need only to be pressed into the soil with a piece of board or the palm of the hand. Always press the earth down firmly after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seeds of the hardier Annuals may be sown where they are to grow; but as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently. Provide some support for all such Annuals as require it, else the plants become weak and straggling, and do not make the show they otherwise would.

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

Seeds of Biennials and some Hardy Annuals may be sown in September in boxes, and placed in coldframes. They will make strong plants by spring, and come into flower early. Do not put on the sashes until heavy rains and frost render this necessary, and then always remove during the day, and whenever the temperature is above freezing in winter.

HARDY BIENNIALS (hB) and PERENNIALS (hP).—These require the same treatment as the Hardy Annuals. In addition to the above, both Hardy Biennials and Perennials may be sown in the open border in September; for if not sown until spring, the seeds of many Perennials require two years before

they germinate. In this case it is a good plan, at the commencement of frost, to cover them lightly with straw, leaves, or any dry litter, in order to afford some protection from the extreme severity of the winter. As soon as the frost is out in the spring, remove the covering and loosen the surface around the plants, which, when large enough, may then be transplanted to the flower garden where they are to remain.

HALF-HARDY ANNUALS (hhA).—These may be sown in shallow boxes, pots, or a hotbed, as directed for Hardy Annuals. They may be sown thus at any time after the middle of April, as the hotbed will be sufficient protection; but it is best to cover the glass with a mat or straw at night until danger of frost is past. In the day give all the air possible by partly or wholly removing the lights. After the end of May sow in the border, like Hardy Annuals.

HALF-HARDY BIENNIALS (hhB) and HALF-HARDY PERENNIALS (hhP) require the sametreatment. Though plants and their bloom are greatly forwarded by sowing the seeds early in boxes under cover, it may be stated that nearly all kinds of hardy and half-hardy flower seeds may be sown in the open border, in a warm and sunny spot as soon as the soil has become dry and warm; so that those who have no glass frames or greenhouses need not be without flowers. They can have them, but it will be later.

TENDER ANNUALS, BIENNIALS and PERENNIALS.—The best method to obtain an early bloom of the Tender Annuals (tA), and to insure strength to the plants, is to sow the seeds in boxes or pots in March, placing them in a warm greenhouse, or plunging in a moderate hotbed, carefully protecting them from the cold, shading from the mid-day sun, and watering with a fine rose. The seed should be sown in very light, sandy compost, and the pots well drained by placing broken pots or bits of sods in the bottom. The finer seeds must not be covered more than an eighth of an inch deep, and the soil pressed down closely over them. Water frequently, particularly if the house or hotbed is very warm. As soon as the plants are out of the seed leaf, transplant into shallow boxes or small pots, and when they have acquired sufficient strength transplant into the flower beds; not, however, before the middle of May.

GREENHOUSE SEEDS (g) should be sown as directed for Tender Annuals, in pans, pots or shallow boxes, and be kept in the house, carefully watched, slightly watered occasionally, and sheltered from the hot sun till strong enough to transplant. Most varieties may be sown at any season of the year.

The smaller seeds of Greenhouse Plants are sometimes difficult to germinate, unless great care be taken in the mode of sowing. Hence the supposition is produced that the seed itself is not good, whereas the fault is not in the seed, but in the treatment. Fine seeds of this description should be sown in leaf-mold or peat, with some fine sand added to it; press firmly down in the seed-pan or pot, and make perfectly level at the top, so that the mold may not afterward sink materially with watering. Sow the seed very thin, and cover very lightly with a little compost, or with silver sand. Success is more certain if a pane of glass is placed over the pan or box till the plants have appeared, when it should be removed. By this method the difficulty of starting fine seeds will be removed. As soon as the young plants have two leaves, they should be transplanted into similar compost in another pan or box. To do this, do not pull them out of the seed-pan, but break up the soil by running a stick or trowel under it, when the plants can be taken out with good roots. After transplanting they should be kept in a shady part of the greenhouse for a few days, until they are somewhat established in the new soil.

There are many minute plants from the finer seeds killed by drenching with water while very young. One way to avoid this is to give the water by dipping a clothes-brush in water, shaking off the greater part of the water from the brush, and then (holding the brush over the seed-pan) drawing the hand over the bristles several times, which will cause the water to be thrown on the young plants almost like dew. Some of the vaporizers and atomizers (as used for perfumes) now in use are admirably adapted for watering tender young plants. In the first stage of their existence, plants require moisture in a minute quantity, often repeated, and not in such large quantities as to saturate the soil in which they are growing.

Primula Chinensis.—The Chinese Primrose is deservedly one of our most popular winter-blooming plants. For winter use, it is easily raised from good seed, if sown at the right time and properly treated. Sow the seed in drills, in a light, rich soil in shallow boxes at any time from the middle of March to the middle of May; the earliest sown seed will naturally produce the earliest bloom. Cover the seed about an eighth of an inch, and press the soil on them with a board or the bottom of a pot. Water moderately, avoid forcing the seed, and keep the young plants away from drip. The boxes may be placed in the greenhouse, or out of doors in a frame. As soon as the plants are well out of the seed-leaf, transplant them singly into two or two-anda-half inch pots, using a light, rich soil. The object now is to make good, stocky plants, and they must therefore be repotted as often as the pots become tolerably filled with roots, until they are in five or six-inch pots, when they may be allowed to flower. Previous to this, any flower stalks that appear must be pinched out. In a suitable place the plants will do better out of doors than in the greenhouse during summer. They need a liberal supply of water. The plants will bloom continuously during the winter in either the greenhouse or a well-lighted sitting-room, not too warm.

CINERARIA.—Years ago the Cineraria was a popular plant among florists. Bedding plants crowded it aside, but it is now fast taking its proper place again among choice winter-blooming plants. It is, to be sure, a rather difficult plant to grow and bloom well if its requirements are not understood. The mistake generally made is in growing it in a warm house instead of a cool one. The seed should be started in the greenhouse. For winter blooming, sow the seed in April and May, in shallow boxes in fine soil; drop the seed in shallow drills, cover, and press the earth rather firmly with a piece of board or the bottom of a pot. Set

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J. M. THORBURN.		F. W. BRUGGERHOF.	
QUANTITY	ARTICLES WANTED	PRICE	À

i

the box where it will get the morning sun, but be free from drip; water moderately and carefully. The

treatment of the seedlings should be similar to that given to the Chinese Primrose. As soon as the plants are out of the seed-leaf, transplant singly into small pots, in a rich soil with some vegetable mold in it. Repot as often as the pots become moderately filled with roots, or sufficiently often to prevent the roots from becoming pot-bound, and so avoid checking the growth. If specimen plants are wanted, the repotting should be continued till the plants are in pots from eight to ten inches in diameter. The last two pottings should be liberal ones, and drainage well provided for, as the plants will need copious waterings. When the flower stalks appear, manure water may be used once or twice a week. Aphis and red spider are the chief enemies to be guarded against; and this is best done by frequent syringings or sprinklings overhead. The plants will do best during the summer out of doors, in some place where they will not get too much sun, and be free from the drip of trees. In the fall the plants should be placed in a cool greenhouse, where the temperature can be kept low and the air moist. The plants should be placed on a table by themselves, and the pots always kept far enough apart to prevent the leaves in one pot from touching those in the next. In the winter it may be necessary to smoke the



SWEET PEAS.

plants with tobacco occasionally, to keep down the "green fly," or aphis; this may easily be done.

Calceolaria.—The herbaceous varieties of the Calceolaria are very beautiful and popular plants. They should be flowered in a cool greenhouse. The seeds are very small, and should be sown on the surface. Sow in shallow boxes, filled with a light, sandy soil that has been sifted. Sow moderately thick in rows on the surface, and cover very lightly with sifted sphagnum moss, cocoanut waste or very light soil. Press the soil firmly on the seed. The watering should be done carefully; an atomizer or brush may be used to advantage. To retain the moisture, the box may be covered with panes of glass, which must be removed, however, as soon as the plants make their appearance. The box should have plenty of light, but not much sun. As soon as the plants can be handled, transplant singly into pots two to two-and-a-half inches in diameter. The soil should be light and rich, and vegetable mold is an excellent addition. Repot as often as the pots are fairly filled with roots, and continue the repotting, if fine flowers are wanted, till the plants are in pots eight inches in diameter. If the pots become root-bound the plants are apt to run prematurely into flower. Water regularly and abundantly to prevent drooping. As the pots increase in size, drainage must be supplied to carry off the surplus water. Place in a cool greenhouse in the winter, as directed for Cinerarias, and keep the pots apart to prevent the leaves from touching. An occasional smoking with tobacco will keep down the green fly.

PANSY.—For spring blooming, the seed should be sown in August, September and October, in a coldframe



CINERARIA.

with a southern aspect. Plenty of air and light are essential. During mild weather the sashes should be reremoved; when it is frosty, coverings are preferable to artificial heat. If wanted for winter bloom, sow in July, and as soon as large enough plant on beds or benches near the glass in the greenhouse, in a low and even temperature.

GERANIUMS.-The Scarlet or Horseshoe Geranium (or, more properly, Pelargonium), now so extensively used for bedding, may be easily grown from seed at any season of the year. If during the summer, better out of doors than anywhere else; but in a greenhouse or sitting-room during the winter. Sow the seed in pots or shallow boxes, in any common soil; cover about an eighth of an inch, and press the soil on the seed. Transplant as soon as out of the seedleaf, in small pots, in a soil only moderately rich; or, if the seed were started out of doors, the plants may be put in the border. Seed sown in doors in the fall or early winter, and the plants grown in the greenhouse, will show flowers in June or July, while plants from those sown in March or later will not come in to flower till August and September, and some even later. Much, however, depends upon the treatment, those receiving special care in pots

blooming much sooner than those turned into a border or bed. The character of the flower will depend upon the quality of the seed, and while many will produce bright and pretty flowers, it is only occasionally that one will be found sufficiently good to save for a name.

EXPLANATION OF THE FLOWER SEED CATALOGUE.

We have endeavored to make our flower seed department as complete in detail and easy of reference as



SINGLE DAHLIA.

possible, and instead of the usual description, have adopted a system of classification in columns, using simple abbreviations to denote the varying characteristics of the varieties in regard to color, time of flowering, hardiness, etc.

The first column gives the NUMBER, by which the different varieties may be ordered, without writing out the whole name.

The **second column** gives the BOTANICAL NAME, in Roman characters, and the following additional information:

The asterisk (*) designates ornamental-leaved plants; these plants are grown for their foliage.

The dash (—) designates the repetition of the name above it as applied to the variety to which the dash is prefixed.

in vars. designates in varieties, or in mixed colors.

fl. pl. designates flore pleno, or double flowered.

The **third column** gives in figures the COMPARATIVE TIME OF FLOWERING. As it is impossible in our varied extent of climate to state the exact month any plant may flower in, we have adopted the simple plan of classing the different varieties into early, intermediate and late flowering sorts. Thus:

1 designates early—blooming in spring and early summer.

2 "intermediate—blooming in midsummer.

3 " late—blooming in late summer and autumn.

The fourth column gives the duration of character, and hardiness.

A represents Annual-lasting but one year, and producing flowers and seed the same season.

B represents Biennial-lasting two years, and generally blooming during the second season.

P "Perennial-lasting three or more years.

E "Evergreen—retaining foliage the entire year.

S "Shrubs—plants of bushy habit.

g " greenhouse plants—such as do best when kept under glass.

bu "bulbous plants—plants forming bulbs or bulbous roots.

. . designates, in every case, repetition.

But as a large number of Biennials and Perennials, if sown early, flower the first season, this distinguishing mark (†) is affixed to such.

The hardiness is denoted by the following abbreviations, but it should be understood that this is intended to apply to the climate of the Middle Atlantic states, and further north or south these designations apply only in a comparative way:

h represents hardy—plants for open border.

hh " half-hardy—plants that require to be forwarded in pots or frames.

t "tender-requiring protection.

The fifth column gives the color in full, except as abbreviated below:

ap.	for apetalous	bff. fo	or buff	lav. for lavender	scar. for scarlet.
blk.	" black	car.	" carmine	ptd. " painted	spot. " spotted.
br.	" brown	er.	" crimson	pur. " purple	stri. " striped.
tri.	" tricolor	sul. '	sulphur	var. " variegated	ver. " vermilion.

The sixth column gives the height in feet to which the plants grow under ordinary cultivation, trai. signifies trailing; cr. stands for creeping.

The seventh column shows the price per packet at which the flower seeds will be delivered by mail at any post office.

The eighth column gives brief observations respecting the various classes of plants catalogued, with special directions respecting their culture, where required. As these notes have been very carefully prepared, their suggestions are worthy of attention.

FLOWER SEEDS.

Flower Seeds delivered free by mail on receipt of the stated price.

See explanation of figures and signs on page 74.

A.E.	NUMBER and NAME. 34 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Hoight in	Price per	General Observations.
2065 2066 2067	Abronia umbellata	2	hA	rose yel.	trai.	cts. 5 5 10	Elegant trailers. Do best in light sandy soil.
2075 2078 2082	Abutilon Thompsonii fol. var Firefly	2 3	gS	y. st. d. red mixed	4	25 25 25 25	Free growing decorative shrubs, with bright bell-shaped flowers. Suitable either for house,
2085 2086 2087 2088 2090 2092 2104	Acacia dealbata	1		yel.	6 10 6 7	10 10 10 5 10 25 10	greenhouse or garden. Greenhouse shrubs, with graceful branches and fine racemes of yellow flowers, richly scented. 2092 is a most charming shrub, with its wealth of fragrant golden flowers.
2107 2108	Acanthus mollis	3 2	hP	white pur.	3	5 10	The leaves of 2107 gave origin to the capital of the Corinthian pillar.
2118	Aconitum Napellus (Monk's Hood)			blue	4	5	Hardy, popular plants, with pan- icles of helmet-shaped flow- ers.
2120 2121 2122	Adonis autumnalis . per oz., 25 c. estivalis	1	hA hP	scar. crim. yel.	1 11/2	5 5 5	Attractive, bright flowers. 2120 is intensely red, with black center.
2128	Agapanthus umbellatus		tP	blue	1	10	African Lily. A beautiful tuberous-rooted plant.
2129 2130 2132 2135 2138 2140 2142	Ageratum conspicuum Lasseauxi Mexicanum per oz., 40c. —album 50c. —Dwarf Blue 60c. —Dwarf White 60c. —Little Dorrit		hhA	white rose blue white blue white blue	1½ 3/4	5 5 5 5 5 5 10	Free-flowering bedding plants of low growth, contrasting well with Geraniums, Perilla and Dwarf Amaranths; used much for bedding and edging.
2148	Agrostemma	1 3		scar.	2	5	See Rose Campion and Rose of Heaven.
2149 2150 2153 2155	—alba linifolia myrtifolia Warscewiczii	• •	• •	white scar.	1½ 2½ 2½ 2	5 5 5 5	Bright little annuals of fine habit; require some protection in cold weather. Sow in hot-bed, and plant out early in May.
2157 2158	Althæa rosea Alstræmeria pulchella Mixed	1 2	gP	yel.&r. mixed	3	10 10	See Hollyhock. Brilliant yellow, with red streaks.
2159 2160 2163 2166	Alyssum maritimum . per oz., 40c. —compactum 50c. saxatile compactum 60c. argenteum 60c.	2	hA hP	white yel.	trai. 1 ½	5 5 5 5	2159 is the well-known Sweet Alyssum, so much used for edging. A. saxatile is a fine per- ennial, with silky foliage and golden yellow flowers.
2168 2168a 2182 2190 2192 2196 2197 2197a 2197b 2198 2199	*Henderi	2 3	hA tA	d.red. red d.red cr.&y. red pur. scar. mixed dk&p'r. mixed	3 2 3 4 2½ diff. 6 3 2	555555555555555555555555555555555555555	Strong-growing, highly ornamental plants. The tricolor varieties are very valuable for bedding, having elegant ornamental foliage, variegated crimson, yellow and green; they are also well adapted for growing in pots. 2168a is an exceedingly handsome plant, with be a utiful pendulous, wavy leaves, variegated with bright red.

•		Time of	go /	ro _j	Height in r	Price per	kot
	NUMBER and NAME.	/4.	SSS SSS	olor of	Sht in E	7 / 26	General Observations.
		ne or	Hardiness and r	Color of	ght	(P)	dederat observations,
45	¼ oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Ziin .	Hay	200	He	Pri	
2202 2204	Amethyst, Winged	2	tA	blue white	2	cts. 10 10	(Browallia.) Elegant greenhouse annuals; fine for cutting.
2220	Anagallis, in varieties	1 3	hh A	mixed		5	Plant in sunny situation.
2223	Anchusa capensis	2	hP	pur.		5	Very attractive evergreen.
2230 2231 2232 2233 2237	Anemone coronaria Japonica rosea —alba Pulsatilla sylvestris	1 3 · · ·		mixed rose white mixed white	1½	5 10 25 5 10	Very beautiful spring flowers, requiring rich, deep soil. 2232 has large, pure white flowers, invaluable for cutting.
2240	Angelonia grandiflora	3	gP	pur.	1	25	Beautiful, sweet-scented; for pots.
	Antirrhinum						See Snapdragon.
2245 2249 2253 2257	Aquilegia caryophylloides chrysantha	1 3	hP 	strip. yel. blue r. & y.	1½ 3 2	25 10 25 10 50	(Columbine). Very elegant and free-blooming hardy perennials, suitable for beds, borders or shrubberies; they prefer a moist, sunny situation. See also Columbine.
2260	Aralia Seiboldi	2	hhP	white	3	10	Handsome palm-like shrub.
2265 2266	Argemone grandiflora, peroz., 40c. —lutea	2 3	hA ··	yel.	2	5 5	In a large garden their glaucous foliage and large, poppy-like flowers are very effective.
2268 2273	Arnebia cornuta	3	hhA		• •	50	Rich yellow maroon.
2276 2278 2279	Asclepias Cornuti	1 3 2 3	hP gP hP	pur. orange rose p.	3 2	5 5 5 5	Silkweed; sweet-scented. Swallow-Wort; free bloomer. Swamp Milkweed. Very showy border plant.
2283 2285	Asperula setosa azurea odorata (Woodruff)	2 3	hhA hP	orange 1. blue white	1 1/2	5 5	Sweet-scented, long bloomers; for borders or rock work.
2286 2287 2288 2288 2289 2290 2290 2291 2292 2293 2294 2294 2295 2296 2296 2297 2298 2290 2300 2301 2302 2303 2304 2305 2306 2306 2307 2308 2308 2309 2310 2311 2311 2311 2311 2313	-Tall Mixed per oz., \$2 Truffaut's Pæony Perfection, Snow WhiteCrimsonDark Blood RedLight BlueMixed per oz., \$2 Washington, WhiteCrimsonPeach BlossomLight BlueMixed per oz., \$3 Victoria, WhiteApple BlossomPeach BlossomPeach BlossomPeach BlossomDark ScarletLight BlueMixed per oz., \$2.50Dwarf WhiteRoseMixed per oz., \$4 Shakespeare, WhiteCrimsonDark BlueMixed per oz., \$3 Comet, RoseRose and WhiteLight BlueMixed per oz., \$3 Comet, RoseRose and WhiteLight BlueMixed per oz., \$4 Imbricated Pompon, WhiteRose		hhA	rose l. blue mixed white crim. d. red l. blue mixed white crim. peach l. blue mixed white l. pk. peach d.scar. l. blue mixed white rose mixed white crim. d. blue mixed white crim. d. blue mixed rose ro. &w. l. blue mixed white rose blue mixed crim.	1 1 2 2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	The name is from Aster, a star, in allusion to the shape of the flower-heads. The genus is very large, containing over 200 species, but we offer here only the choicest double sorts. The special attention given of late to the cultivation of the Aster has resulted in the production of many truly magnificent varieties. Among them we may mention the Victoria, which produces the most beautiful and perfectly formed flowers, and is also the best for pot culture; the Triumph, deep scarlet and white, are very effective for bedding or pot culture. For cutting and bunching the long-stalked, perfectly globular flowers of the Jewel are especially desirable. The Truffaut class is remarkable for its large incurved flowers and the brightness of the colors. The Washington varieties have extra large, perfectly for med flowers, resembling somewhat a double Zinnia. Imbricated Pompon are very handsome and most suitable for bouquets. In this latitude, Asters should be sown from the middle of March to the first part of May, on a spent hot-bed or in pots or

NUMBER and NAME. 1/4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Height in T	Price per	General Observations.
3314 Asters, Bouquet Dwarf, White	3	hhA	white mixed d.scar. mixed d. scar. sc.&w. l. pink white mixed white mixed	1 1½ 1½ 1 1½ 1 to 2	cts. 10 10 10 10 25 25 10 10 25 10 10 5 10 10 5 10 10 10 10 10 10 10 10 10	shallow boxes, in a frame or in the house. When an inch high they should be transplanted into fine soil spread over a discarded hot-bed, from whence they can be bedded out when three or four inches high. This should be done before or during showery weather. Asters do finely sown in the open ground from the middle to the last of May. The only objection to this mode is their late and short duration of flowering. They can also be grown in pots successfully. Use fine and rich soil, and keep well watered.

COLLECTIONS OF CHOICE ASTERS.

We invite special attention to the collections here offered. These are put up in Germany, and contain only seed saved from the very finest plants, by men of long experience in selecting the best flowers. In each collection, the colors are separate; for instance, the collection of 24 Truffaut's Pæony Perfection contains 24 separate and distinct colors or varieties of the class. We are confident that these assortments contain the finest obtainable seeds.

5 Dwarf Queen (beautiful)	\$0 35	8 Imbrique Pompon
6 Comet, New	. 40	6 " 40
18 Double Quilled German	. 60	6 Lilliput-flowered
13. " " "	. 45	12 Chrysanthemum-flowered
6 " " " "		
12 Double Dwarf German	50	8 " " 50 40
6 " " "		18 Dwarf Chrysanthemum-flowered 90
12-Druggef Ronauct	. 60	10 (1 - 11 14 14 65
12-Dwarf Bouquet		, , , , , , , , , , , , , , , , , , , ,
8		8 " " 50
0 01-1		6 40
6 Shakespeare	. 35	12 Large Rose-flowered 60
12 Dwarf Victoria	. 85	8 " " " 50
6	45	6 " " " 40
12 Pyramidal Dwarf Bouquet	. 60	6 Victoria Needle
8 " " " " "	. 45	4 White-centered Crown
6 ((((-	18 Victoria Prize
12 Giant Emperor	. 80	12 " 90
8 "	60	8 " " 60
6 "	45	6 " " 50
24 Truffaut's Pæony Perfection		
18 " " " "	. 1 25	15 Chiana Globe
10 11 11	. 1 00	
2 11 11 11	. 75	8 Schiller
	. 55	6 "
6 " " "	. 45	6 Goliath
12 Imbrique Pompon	. 60	6 Washington 45
·		



ASTER, CHRYSANTHEMUM-FLOWERED.



ASTER, POMPON.



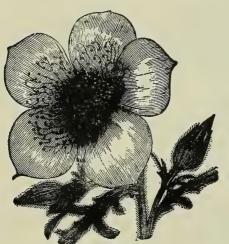
ASTER, PÆONY-FLOWERED.



BRACHYCOME IBERIDIFOLIA.



CALENDULA OFFICINALIS "METEOR."



BARTONIA AUREA.



ADONIS ÆSTIVALIS.



AGERATUM MEXICANUM.



CALLIOPSIS DRUMMONDII.



CANDYTUFT.

			ering.	olor of	Temoj	reet /	acket
NUMBER and NAM	Œ,	100	Hess Ress		i / i	per	General Observations.
% oz. at oz. rate only on artic \$1 per oz. and over.	cles quoted at	Time of	Hardiness and P.	Color of	Height in	Price per	
2340 Aubrietia deltoidea.		1	hP	pur.	trai.	cts.	Resembl'g Alyssum in character;
2341 Græca		1 3		mixed	1/2	$\begin{array}{c c} 10 \\ 25 \end{array}$	fine for rock-work or bedding. Primula auricula. Beautiful
		2	hS	Mixeu	$\frac{72}{2}$	25	shades of color. Seed from finest varieties.
2345 Azalea hybrida 2352 Balsams, D'ble Wh. p	per oz.,\$1.50		hhA	white		10)
2353 — Cream White 2354 — White tinted Lilac	2.00			white		10 10	
2355 — Crimson	" 1.50			crim.		10 10	Magnificent summer - flowering annuals, producing masses of
2357 —"Defiance" Pink.	" 1.50			pink		10	most perfectly formed and brilliantly colored flowers in the
2358 — - Viol't sp'tt'd-w': 2359 — Light Pink	" 1.50			v. & w. l. pink	: :	10 10	greatest profusion. They pre- fer a rich, sandy soil, and must
2360 —Rose 2362 —Blood R'd (r'd st'lk	" 1.00 " 1.50			rose		10 10	be kept well watered. Trans-
2363 —Apple Blossom —Scarlet				flesh scar.		10 -10	planting two or three times has a tendency to dwarf them and
2365 ——Spotted	1.50			spot		10 10	make the flowers more double. Of last year's introduction No.
2380 —Violet spotted	" 90			strip.		10	2353, with its lovely creamy white flowers, and No. 2362,
2381 — Pomegranate	" 1.00			purple		10 10	with elegant red stalks and
2398 — Solferino				mixed		10 10	dark shining, scarlet flowers, deserve special notice. Per-
2401 —Camellia-flowered. 2402 —Finest Mixed	" 1.50			mixed		10 10	haps the finest of all, however, is No. 2354, now offered for the
2403 —Common Mixed	. '' 40					5	first time. It is of a beautiful white, exquisitely tinted with
6 var. Improved Cam 12 "Double Rose-fi	ellia-flow'd lowered		,			65 65 35	lilac.
Banana			-				See Musa Ensete.
2418 Baptisia australis 2420 Bartonia aurea			hP	blue	9	5 5	False Indigo; beautiful blue.) Golden yellow flowers; very fra-
2421 —nana			hA	yel.	$\frac{3}{1\frac{1}{2}}$	5	grant in the evening.
*Beet— 2422 Brazilian,G'ld'n-vein'd 2423 *—Scarlet-veined	d, per oz. 20c.			-		5	Beets having no tubers, but with handsome ornamental foliage
2423a *-Crimson-veined .	" 20c.		7.			5 5	of very beautiful, rich colors.
2424 *Chilian,Scarl't-rib'd 2426 *—Yellow-ribbed	" 20c.					5 5	Very effective in center of beds, or anywhere in contrast with
2437 *Victoria	" 20c.	-				5	other plants.
2450 Begonia , Single Tube 2450a Double Tuberous-roo	oted	1 3	gP	mixed	2	25 75	Fine for growing in pots, being
2451 *Rex, Ornamental-lea 2452 semperflorens rosea				rose	$1\frac{1}{2}$ $1\frac{1}{2}$	25 25	perfect in habit, with very handsome foliage. 2452 and
2452a —alba Collection of Begonias	including			white		- 25	2452a are very free flowering and fine for bedding.
6 var. Tub'rous-root'	d; fine col'rs					1 00	and line for souding.
2453 Bidens atrosanguinea 2457 Blue Bottle		1	hA	d. red	2	10	Showy, like the Calliopsis. See Centaurea Cyanus.
2461 *Bocconia Japonica .				white	4	5	Ornamental habit and foliage.
2463 Brachycome iberidif 2465 —alba	olia	3	hh A	pur.	1	5 5	Swan River Daisy; for edgings.
2469 —in vars				mixed		5	Should be started in hot-bed.
Browallia elata							See Amethyst. See Tassel Flower.
2473 Calandrinia discolor 2475 speciosa 2480 umbellata	per oz., 50c	2 3	hhP	rose pur. violet	1/2 1/4 1/2	5 5 10	Brightly colored little plants, fine for edgings; plant in sunny situations,
Calceolaria hybrida			шпг	VIOLET	72	10) Studenting
2482 Large-flowered, self 2483 —Dwarf, self-colore	-colored	1	gP	mixed	2	25	Splendid greenhouse plants; flowers beautifully striped, blotch-
2484 —Tigered or Spotte	d				$\begin{vmatrix} 1\\2 \end{vmatrix}$	25	ed and variegated. Our seeds
2486 — Dwarf Tigered	elf-colored,				1	25	are saved from the finest varieties. 2490 is an excellent bed-
Mixed 2490 rugosa (shrubby)			::		2	25 50	ding variety.
	no.						

	/	ring/	tion	Wer	reet /	cket
NUMBER and NAME.	0.00	Hess Tess	folor of	it in	ber.	General Observations.
\$ 34 oz. at oz. rate only on articles quote \$1 per oz. and over.	I at John John John John John John John John	Hardiness	Color of	Reight in E	Price per	
2491 Calceolaria pinnata	2 3	gP	yel.	2	cts. 10 5	Excellent bedding varieties. See
2499 — "Meteor" " 2500 — "Prince of Or'nge" " 2505 pluvialis " "	25c	hA	orange yel.	1	5555555	"Pot Marigolds." Very showy, free-flowering, hardy annuals, very effective in back-grounds, beds or mixed borders.
2507 Calla Æthiopica	3	gP	• • .	$1\frac{1}{2}$	10	The popular Calla Lily.
2508 Calliopsis marmorata, p'r oz., 2510 grandiflora	30c. 2	hA hP hA hB	r. & y. yel. y.&br. yel.	3 1 3	5 10 5 10	(Coreopsis.) Very showy annual orperennial plants, easily cultivated in ordinary soil. They
2518a lanceolata	\$2. 30c.	hA hP hA	y.&br. yel. mixed	2 1 2	5 10 5 10 35	are abundant in bloom and of bright, attractive colors. <i>C. lanceolata</i> is fine for cutting.
2520 Callirhoe involucrata per oz.,	1 3	hP hA	C. & W. V. & W.	trai.	5 5	Eree-flowering, of pretty colors. Start in frame early.
2529 Camellia Japonica . per oz.,	20c	gP	mixed	- 3	10	Grand greenhouse plant.
2530 Campanula carpatica	2 3	hP hB thhP	blue white mixed blue white mixed white blue white	2 3 4	5 5 5 5 10 5 10 5 5 60	One of the best known plants grown in the garden. The hardy perennials, if sown early in good soil, will bloom early the next season. The first two on the list are very fine for edgings and beds.
2550 ——"Empress" . " 2553 —odorata	25c. 25c. 75c. 25c. 25c. 40c. 25c. 30c. 40c. 75c. 25c.	hA	pur. flesh d. car. lilac car. mixed white pink	1/2	555555555555 10 30	Showy Annuals for beds or edgings; several are sweet scented. They can be sown at any time in the house or open ground. The dwarf varieties are good bedders, and useful for cutting as well: largely grown by florists, especially the white varieties, for floral work, for which they are very well adapted. 2569 makes a magnificent show the second year from seed.
2571 *Canna, Dark-leaved, per oz., 2572 *Fine Mixed . " Crozy's Celebrated Varieties: 2573 *Admiral Courbet. 2574 *Felix Crousse 2574 *Francois Corbin. 2575 *Jules Chretien. 2575 *Jules Chretien. 2576 *Leon de St. Jean. 2577 *Mad. Oriol. 2578 *Mad. Cleveland. 2580 *Pierre Biorley. 2581 *President Faivre.	20c.		yel. cherry l. red l. yel. cherry verm or. red car. l. red y. & r d. red	4 3½ 3 4½ 3½ 3½ 3 2½ 4½ 4½	5 5 10 10 10 10 10 10 10 10 10 10 10 10	Cannas or Indian Shot are very ornamental and much employed in sub-tropical gardening. With rich soil and a sheltered situation they will flower freely through the summer and late into the autumn. The Crozy varieties are famous for the beauty and size of their flowers. They are excellent for forcing and pot-work, and their flowers present quite new shades of color. Antoin Chantin has cerise

NUMBER and NAME.	00	Hardiness and	dor of	Height in	Price per	General Observations.
\$ 1/4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hard	Color of	Heig	Price	
Canna, continued— Crozy's Celebrated Varieties— *Trocadero	1 3	gP · ·	scar. o. mixed		\$1 25 75 50 60	flowers beautifully shaded with salmon color. Jules Chretien is an extra fine variety with splendid foliage and cerise flowers shaded purple. President Faivre is remarkable for its very dark foliage and fine dark red flowers. All the sorts are also very effective indoors.
2587 Canterbury Bells, Blue	2 3	†hB	blue white rose mixed blue rose white mixed	2	5 5 5 10 10 10 10	Campanula, or Canterbury Bells; very ornamental for the garden. All the varieties are fine old plants, and should be grown extensively; they are handsome for cutting.
2608 Carduus Benedictus	2	hA	yel.		5	"Blessed Thistle;" pretty.
Carnation (Dianthus)— Common Single . per oz., 60c. Common Double . "\$2. 2613 Double Extra	2 3	hhP	mixed red mixed	2	5 10 25 25 50 10 25 10 10 10 10 25 3 00 1 75 1 25 1 00	Saved from the finest collections of Germany. Grown in pots and in good soil, no flowers can be finer or more worthy of general cultivation. Are very fragrant and present great diversity and brilliancy of coloring. The culture of seedlings is very interesting. The "Margaret" is specially adapted for outdoor culture, flowering in five months from time of sowing, and is remarkable for the richness and profusion of its flowers, as well as for its vigorous growth. It is also suitable for pot culture, flowering the first season from seed.
2638 Castilleja indivisa	2 3		b. red	.1½	25	Ornamental plants, with beautiful bracts.
Castor Oil Plant						See Ricinus.
2640 Catananche alba	• •	hA †hP	white blue		5 5	Everlasting flowers. Bright colors and free flowering. See Silene.
2646 Cedronella cana			pur.		5	Purplish crimson flowers.
2647 Celosia Huttoni (dark foliage) . 2647a Golden Feathered	3 2	tA	claret yel. crim.		5 10 10	Fine for vases; splendid foliage plants.
Celosia cristata	•					See Cockscomb.
2648 Centaurea Americana, per oz., 50c. 2650 *candidissima . 1,000 seeds, \$1.00 2651 *Clementei . "	3 . 3 3 2	hA hhP hA	pur. white blue mixed	3 1 1½ 	5 25 10 10 5 5 5 10	Nos. 2650, 2651 and 2655 are silver-leaved plants, fine for ribbon borders and edgings of beds. The others are showy plants when in bloom.
2661 Centauridium Drummondii			yel.		5	Pretty little Composite.
2663 Centranthus — macrosiphon per oz., 30c. 2665 —albus 30c. 2668 —nanus	1 3	* * *	red white red	1	5 5 5	Very pretty free flowering Annuals, suitable for rockeries and vases.
2671 Cerastium tomentosum	2. 3	†hP	white	trai.	25	Fine edging plants; pretty.



DOUBLE COLUMBINE.



CHRYSANTHEMUM TRICOLOR BURRIDGEANUM.



DWARF MARGARET CARNATION.



CLARKIA PULCHELLA.



CENTAUREA CYANUS. (Corn Flower.)



HYBRID COSMOS.

		ring	olor of	Sht :	Feet	General Observations
NUMBER and NAME.	00,	10W Ress	$egin{pmatrix} oldsymbol{o}_{ar} \ oldsymbol{o}$		ber /	General Observations.
4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Height :	Price per	
2673 Cerinthe retorta per oz., 40c.	2 3	hA	yel.	1½	cts.	Valuable for bees.
2675 Chelone barbata coccinea — hybrida, Mixed per oz., 60c.	3	†hhP	pur. mixed	2	10 5	Very pretty; bright color.
2685 Chorizema varium	1 3	gS	scar.	3	25	A fine greenhouse plant.
Christmas Rose					7	See Helleborus niger.
Chrysanthemum (Annual) coronarium, Double White						
2693 —Double Yellow "40c.	2 3	hA	white yel.	1½	5 5	The annual Chrysanthemums are showy, free bloomers, and
2695 —Double Mixed 40c. 2711 tricolor, Single White 40c.			mixed white		5 5	should be grown in gardens in large beds, where they will
2712 —luteum, Single Yel. "40c. 2712a —atrococcineum "40c.			yel. d.scar.		5 5	show their bright colors finely. Perfectly hardy and very de-
2713 —Single "Eclipse" " 75c. 2714 — Mixed " 40c.		• •	br.&yl. mixed	1	5 5	sirable. C. multicaule is a valuable bedding plant.
2714a — Double Mixed 80c. 2715 — Burridgeanum 40c.			w.&r.		5	
2717 multicaule (fine bedder)		• •	yel. white	1/4	5 10	For bouquets or edgings.
2721 frutescens (Paris Daisy)					10 25	C. frutescens is the Paris Daisy, or "Marguerite."
12 var. Chrysanthemum, Annual					50 35	
Chrysanthemum (Perennial)—		hP	Equipment of the state of the s	3	10	These are the celebrated sorts of
2730 Indicum grandiflorum	3		mixed · ·		10 25	the autumn shows that attract so much attention; bloom late
2732 —From finest flowers —pompon			•	$1\frac{1}{2}$	10	in fall.
Cineraria hybrida— 2735 White	1	†gP	white	2	25	Among the most ornamental and
2737 Azure Blue	• •		blue crim.		25 25	useful of greenhouse plants; very beautiful and showy, the
2739 Splendid Mixed			mixed	1	25 25	colors being distinct and bright. The seeds we offer are
2750 — Large flowered Prize	2		• • •	2	50 75	saved from the finest named flowers. C. maritima is the pop-
2753 Cineraria maritima, per oz., 50c. 2755 candidissima		hhP ··	yel.		5 5	ular "Dusty Miller."
Clarkia— 2758 elegans, Double per oz., 30c.	2 3	$_{ m hA}$	mixed	1½	5	Very pretty, free flowering, and
2761 —purpurea, Double. "40c. 2763 pulchella "30c.			pur. rose	-/2	5 5	of easy cultivation. A bed of these, especially the double va-
2765 —alba			white bord.		5 5	rieties, is very beautiful. They are useful as edging plants, or
2768 — White Tom Thumb			white mixed	3/4	5 5	for vases and hanging baskets.
2779 Clary, Purple-top per oz., 25c. 2779a Red-top	1 2		pur. red	2	5 5	(Salvia hominum.) Odd but pretty flowers.
2782 Cleome arborea	2	gP gA	white pur.	6	10 10	Curious; very ornamental, in Castor Oil plant style.
2785 Clianthus Dampieripuniceus	1 2	gS · ·	scar. crim.	3 6	10 10	Greenhouse plants, bearing showy, pea-shaped flowers.
2792 Clintonia (Downingia) pulchella	2	hA	tri.	1/2	10	Very pretty for edging.
Cockscomb— 2797 Empress, Dwarf Crimson	2 3		crim,	3/4	10	(Celosia.) If grown in good rich
2798 Dwarf Crimson			rose	1/2	5 10	soil, the heads will be large, full, bright colored and very
2800 Glasgow Prize	3		crim. scar.	$\begin{bmatrix} 1 \\ 3 \end{bmatrix}$	10 5	 pretty. Can be preserved for winter bouquets by cutting off the heads before they are ripe,
2813 Japan Golden	2 3		golden mixed		10 5	and drying in the house.
2833 *Coleus (Fine hybrids)		gP		2	25	Splendid bedding plants, with beautifully colored foliage.
Choice collections, including— 12 varieties 6 "					1 25	Very useful for decorative purposes.
					10	, possi,

		diness	do of the E.	Sht in r	Price per	cket
NUMBER and NAME.	/· <u>c.</u> ,	Hardiness		Height in	7 / 20	General Observations.
	Time of	rdin	Color of	ight.	log h	
\$1 per oz. and over.	Zin Zin	Ha	100	He.		/
2835 Collinsia Bartsiæfolia,p'roz.,50c. 2838 bicolor	1 2 2 2 3 1 3	hA	pur. p. & w. white blue w.&ro. bl.&p. mixed	1 11/2 1	0 0 0 0 0 0 0 0 0 0 0 0	Free-flowering Annuals. If sown in autumn, will stand the winter, and flower early in spring. All the species are brightly colored and excellent for growing in patches or clumps; easily grown in any garden soil.
2854 Collomia coccinea			s. & y. yel.		5 5	Fine for bees; suitable for pot culture; very pretty.
Columbine— 2858 Common Double per oz., 40c. White	1 3	hP	mixed white		5 5	These are very free flowering. See also Aquilegia.
2862 Commelyna cœlestis	1	hhP	blue white var.	1 2	5 5 5	Showy, favorite plants for pots and gardens, where they grow finely.
2870 Convolvulus tricolor, per oz., 25c. 2872 — White 25c. 2875 — unicaulis	1 3	h A	blue white pur. crim. rose mixed	1	88 87 87 87 87 87 87 87 87 87 87 87 87 8	These are fine Dwarf Morning Glories for growing in clumps or beds, and well adapted for rockeries and hanging baskets; bloom for a long time.
2878 Coral Plant	2 3	gS	scar.	4	10	Beautiful greenhouse shrub.
2880 *Cordyline australis	3		white	3 10	10 10	Beautiful foliage plants for vases or decoration.
Coreopsis				3		See Calliopsis.
Corn-flower	,			4 •		See Centaurea cyanus.
2887 Cosmidium Burridgeanum	2	hA	orange	2	5	Very showy.
2890 Cosmos bipinnatus purpureus			pur. mixed white	3	10 10	Showy autumn bloomers; much admired and very valuable.
2892 Cotton (Gossypium)		tA	yel.		5	Curious; for pots and gardens.
2894 Cowslip (Primula veris)	1	hP	mixed	1/2	10	Favorite spring flower.
2900 Crucianella stylosa	2		pur.		5	A handsome Crosswort.
2904 Cuphea miniata 2905 platycentra 2906 purpurea 2907 eminens 2908 Rœzlii 2909 strigulosa	3	†hhP	crim. s. & w. pur. s. & y. yel. &r. violet	1 11/2 1	5 10 5 10 10 10	These are very pretty greenhouse plants, and are also good for the border, being constantly in bloom. No. 2905 is well known as "Cigar Plant."
Cyclamen giganteum— 2911 —album "Mont Blanc" 2912 —atropurpureum 2913 —super bum 2914 —robustum 2915 —roseum, bright rose 2916 —"Emperor William II." (colossal fringed flowers of bright rose color, tinted with scarlet) 2916 —atropurpureum splendens, Double — 2917 Persicum 2917a —splendens	1	gbu	white d.red w. & r. w. &d.r. c. & w. rose r. & s. d. red mixed red	34	25 25 25 25 25 25 25 25 25 25 10	The seed of the "giganteum" varieties here offered is of the magnificent strain of the German Imperial Gardens and was collected for us expressly. The seeds produce bulbs, from which lovely flowers are produced in twelve months' time; very fine for pot culture in parlor or conservatory. 2916a is a splendid new double variety.
2918 Dahlia , Fine Double, per oz., 75c. 2919 Double Dwarf	3	†hhP	mixed	$\begin{bmatrix} 6\\3\\1 \end{bmatrix}$	10 10 10 10 25	These are too well known as favorites to need a description. All the varieties are fine; 2921a and 2921b have oddly shaped

	/	rlowering diness	olor of	Height in	Price Der	3cket
NUMBER and NAME.	05	Now.	Dar of	# Fi	Per /	General Observations.
🌤 ½ oz. at oz. rate only on articles quoted at	/ ~	Hardiness	Color of	teigh	rice	
\$1 per oz. and over.	<u> </u>	/49	/ 0	/ 1 4	/ R ₄	
Dahlia—continued. 2921a Cactus Dahlia, Scarlet	3	†hhP	scar.	3	cts. 25	flowers. Jules Chretien is a new
2921b White			white		25	very dwarf variety, growing from 10 to 15 inches high. The
12 var. beautiful Single Dahlia					1 00 60	beautiful single sorts flower first season from seed,
2922 Daisy, Double White. per oz., \$6	1	†hP		1/4	10	
2923 Double rose (Longfellow) 2925 D'ble finest collection, per oz., \$6			rose		25 25	(Bellis.) The poet's favorite; very popular flowers.
2927 Double Snowball			white	1	25	See Chrysanthemum frutescens.
2933 Daphne Mezereum		hS	pink	3	25	Early flowering and scented.
2935 Datura metelloides	1 2	hhA	w.&br.		5 5	Very showy and large, trumpet-
Delphinium (Larkspur)—			F			, , , , , , , , , , , , , , , , , , , ,
2942 Brunonianum	2 3	†hP hA	blue	1	25 5	•
2744a cardinale	2	hP +hP	scar.	2 3	25 10	Handsome plants for large gar- dens; vary in color from pale
2946 formosum per oz., \$1 2948 nudicaule			scar.	1	10 10	to deepest blue. For other sorts see Larkspur.
Choice collection, including 6 var. Delphinium hybridum fi. pl					75	
Dianthus						See Pink, Carnation and Picotee.
2956 Dictamnus Fraxinella	1 2	hP	red	2	10	Curious dwarf herbaceous plants.
2958 —albus			white mixed		10	The leaves, when rubbed, have a fine odor.
Digitalis					1	See Foxglove.
2962 Dodecatheon Clevelandi			p.&or. purple	1	25 10	D. Meadia is the "American Cow- slip."
2964 * Dracæna Draco	2	gP	white	10	25) San Gard Vive Company to Lawrence
100 seeds, 20c.; 1,000 seeds, \$1				5	10	See Cordyline. Ornamental green- house plants, with elegant
2970 *Veitchii			red white	3	25 25	leaves; very rich and desirable.
2972 Dracocephalum Moldavicum	3	+hP	blue	2	5	Ornamental.
2972a Echeveria retusa nana 2974 secunda	$\begin{vmatrix} 2 \end{vmatrix}$	gP	yel.	1/4	25 25	Interesting greenhouse succu-
2975 metallica					25 25	lents, which are largely used for "carpet" bedding.
2978 Epacris hybrida superba	1 2	gS	mixed	div.	50	Free blooming, like a Heath.
2980 Erica (Heath), Finest Mixed	2 3			2	25	Charming evergreen shrub.
2983 Erinus alpinus	2	hP	blue	1/4	10	Beautiful for baskets.
Erysimum— 2986 Arkansanum per oz., 30c.	1 2	hA	yel.	11/2	5	Free flowering; of bright colors
2988 Peroffskianum 30c.			orange		5	and neat habit.
2989 Eryngium cœlestinum	2 3	hP	blue		5	Beautiful sky-blue flowers.
Eschscholtzia— 2990 Californica per oz., 40c.	1 3		yel.	1	5	Large vase-shaped flowers of
2990a —alba			white car.		5 10	bright colors, continuing long
2992 crocea per oz., 40c. 2995 —plena			orange		5 5	in bloom; excellent for borders or bedding, and the double sorts
2998 tenuifolia			yel.		5 5	are very showy. Are also fine when grown in pots.
3001 Mixed			mixed		5	
3003 Eucharidium grandiflorum	1		rose		5	Very graceful little plant.
3005 Eucnide Bartonioides		tA	yel.	2	10	Fine for rockeries or for pots.
3010 Eupatorium Fraseri	3	hP	white	3	5 5	No. 3010 is fine for cutting. "Boneset." A fine wild flower.



FOUR-O'CLOCKS



FORGET-ME-NOT.



ECHEVERIA SECUNDA.



ESCHSCHOLTZIA CALIFORNICA.



GYPSOPHILA PANICULATA.



EUPHORBIA MARGINATA.



FOXGLOVE.

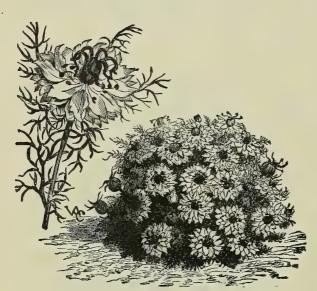
			ring	olor of	Sht in r	reet /	cket
	NUMBER and NAME.	Jo	lowe ness			ber 1	General Observations.
NG	**Y oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time.	Flowering Rardiness	Color of	Height in z	Price per	
3014 3016	*Euphorbia marginata, peroz.,30c.	1	hA	w.&gr. white	2 3	cts. 5 5	Very pretty leaves; showy.
3020 3022 3026	Eutoca multiflora	1 8	hB hA	pink blue	1	5 5 5	Are good, serviceable flowering plants for bedding; free blooming.
3030	Fenzlia dianthiflora	1 9		rose	1/4	25	Pretty for ribbon gardening.
	Ferns —Choice collection, including 12 of the finest sorts					\$1 25	Most graceful plants; do best in sandy, peaty soil.
	Feverfew						See Matricaria.
	Flax						See Linum.
3046 3048 3049 3049a 3050 3054 3056 3058 3062	Forget-me-not— Myosotis alpestris, per oz., 80c. —alba \$1.00 —elegantissima	1 1 %	†hP	blue white blue d. blue l, blue blue b. & w. blue	trai.	10 10 10 25 10 25 10 10 10	All are beautiful and much prized for spring gardening. The Myosotis palustris is the true "Forget-me-not" of Europe. All the species are favorites, being early flowering and easily grown. They prefer a moist situation.
3065 3070 3072 3075 3076 3078 3079 3080 3082	Foxglove (Digitalis), White Large-flowered Rose Purple Mixed per oz., 30c. Gloxinia-like, White Purple Rose Purple Rose Purple Rose Purple Rose Purple Prozes Per oz., 40c.	2 8		white l. y. rose pur. mixed white pur. rose mixed	2 1½ div. 3 	5 5 5 5 5 5 5 5 5 40	Digitalis—from digitus, a finger, referring to the shape of the flowers. The Foxgloves are showy for back-grounds and borders, and are beautiful when planted among shrubs; they thrive in any ordinary garden soil.
3089 3090 3091 3091a 3091b	Choice collections, including— 12 var. Four O'Clock	2 8		white mixed white mixed	2	5 5 5 5 5 5 45 30 30	(Mirabilis.) Called Four O'Clocks because they open their blossoms at that hour in the afternoon. They are also known as "Marvel of Peru." Handsome, free-flowering, sweet-scented; blossoms variegated, striped and various colors.
3092	Fragaria Indica	1 2	hP	yel.	trai.	10	Beautiful scarlet fruit.
3093	Freesia refracta alba	Ę	gB	white	2	10	Very sweet flowers.
3094 3095	Fuchsia procumbens (for vases) Finest Mixed. Collection of Fuchsias, including 12 choice varieties.	1 8	gS	blue mixed	trai. div.	50 50 75	"Ladies' Ear-Drop." Well known greenhouse plant. They require a firm, rich soil.
3096 3097 3098 3099 3102 3103	Gaillardia amblyodon. picta. —Lorenziana per oz., 50c. —Aurora Borealis. —Salmon Red. —Mixed per oz., 40c. Collection of Gaillardia, including 6 choice varieties.	2 :		fine r. yel. mixed sc.&y. salmon mixed	2	5 5 5 5 5 5 5 40	Showy and free bloomers. They are good bedders, very beautiful; fine for bouquets, and should be more generally cultivated. They do best in a good light soil.
3108 3110	Galega officinalis	1 :	hP	blue white	3	5 5	Tall ornamental plants, suitable for borders.
3112	Gamolepis tagetes	1	hhA	yel.	1	5	Fine for beds.
3114	Gardenia Thunbergii		gS	white	2	25	Flowers very fragrant.
3116	Gardoquia Betonicoides	S	thhP	pur.	1½	10	Worthy of cultivation.
3118	Gaura Lindheimeriana . oz., 40c.	1 2	hhA	w. & r.	3	5	Flowers freely all summer.



GODETIA, LADY ALBEMARLE.



LEPTOSIPHON ANDROSACEUS.



LOVE-IN-A-MIST.



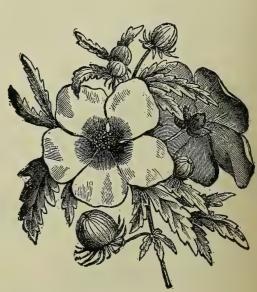
LINUM GRANDIFLORUM RUBRUM.



ROCKET LARKSPUR.



GILIA TRICOLOR.



HIBISCUS AFRICANUS.

NUMBER and NAME. NUMBER and NAME. NUMBER and oz. rate only on articles quoted at \$\frac{1}{2}\text{B} \frac{1}{2}\text{B} \f										
	NUMBER and NAME.	. £	Hardiness	Dara		190	General Observations.			
13	¼ oz. at oz. rate only on articles quoted at	100	$^{ m ir}di_{ m ir}$	Color of	, /sigh	ice 1				
	\$1 per oz. and over.	Ţ,	A A	° / 🕉	A.	_/~~	<u></u>			
	Gentiana acaulis	1	hP	d.b.	1/4	10]			
3120a 3121	Andrewsii	2	hA	blue pur.	1 1/2	25	Fine, showy, hardy plants. Should be in every collection			
312 4 3126	cruciata	3	hP hA	blue	1	10 25	for the beauty of the flowers.			
	Geranium (Zonale), per oz., \$1.50	1	gP	scar.	11/	1 10				
3132	Double Scarlet			Scar.	1½	50	Saved from fine named varieties; especially fine colors. See also			
3138 3139	sanguineum		hP	pur.	1	50 25	Pelargonium.			
3141	Gesnera macrantha		gP	scar.	1/2	50	Beautiful greenhouse plants with			
3143	Extra Mixed	2		mixed		50	long-tubed flowers.			
3145 3146	Geum Chiloense coccineum pl —atrosanguineum fl. pl		hP	scar.	1½	5 10	Blooms freely for a long time. Fine for bouquets.			
3152 3153	Gilia capitata	1 2	hA.	blue	1	5 5				
3154	laciniata				1/2	5	Free-blooming Annuals, fine for beds. Will bloom in any situa-			
3156 3158	linifolia (for borders)				1	5 5	tion, look well on lawn in beds, are good for rockeries, and can			
3160 3167	tricolor		. :	tri.		5 5	be planted at any season.			
3169	Mixed per oz., 20c.			mixed		5	J			
3171 3172	Glaucium luteum Fischeri	2 3	†hP	yel. salmon	2	5 10	Horned Poppy. Showy border plants, with gray foliage.			
3173	Globularia trichosantha	2	gP	blue	1/2	10	A very handsome plant.			
3174	Gloxinia hybrida, Mixed	. 1 3		mixed		50	Beautiful greenhouse plants.			
3176 3177	—crassifolia erecta					50 50	They grow well in a light, rich soil. Defiance is of an intense,			
3178 3179	—grandiflora "Defiance" (new) —French Tigered and Spotted			scar.		50 50	glowing scarlet, and one of the finest of recent introductions.			
	Godetia rubicunda splendens		hA	p. r.	1	5)			
3183 3184	Princess of Wales			d. cr.	$1\frac{1}{2}$	5	All the manieties are fine and fine			
3188	Lady Satin Rose			w. & c.		5 5	All the varieties are fine, profuse blooming, hardy Annuals of			
3189 3190	Duchess of Albany Lady Albemarle			white crim.		5 5	beautiful colors. Can be grown in pots. G. Whitneyi is a mag-			
3190a 3190b	Lindleyana				1	5	nificent species of compact			
3190c	Bijou			d. rose	$egin{array}{c} 2 \ 1\frac{1}{2} \end{array}$	5 5	habit, with very large, rosy flowers blotched with crimson;			
3191 319 4	-Brilliant	2 3		w. spo.		5 5	it makes a splendid pot plant. No. 3184 is of a beautiful, bright			
3195	Mixed per oz., 30c. Collection of Godetius, including	1 3		mixed		5	carmine color; very effective.			
	6 choicest varieties					30				
	Folden Feather			-			See Pyrethrum.			
	Frammanthes gentianoides	2	hhA	yel.	1/2	10	For edgings, pots or baskets.			
	Frevillea robusta		gS	orange	5	10	Elegant, gracefulfoliage plant.			
	dutierrezia gymnospermoides .	2	hP		1	5	For baskets; yellow flowers.			
3207	ypsophila elegans, per oz., 30c. —rosea 30c.	1 2		white		5 5	Fine for bouquets. Free bloomers for rockwork or shrubbery,			
3211 3213	muralis		hA hP	pink white	1/2	5	and will grow in any soil.			
3218 E	lawkweed, Bearded	3	hA	yel.	~	5				
3220 3222	Red			red		- 5	(Hieracium.) Showy plants, of			
3:23	Mixed per oz., 40c.		* *	white mixed		5 5	free growth and varied colors.			
3225 E	Ielenium Douglasii	2 3	hP	yel.		5	Free flowering Composite, with yellow flowers.			
3230 E 3235	Chieftain (dark)	1 3	gP	pur.		10				
3242	Chieftain (dark)			d. pur.		10	Heliotrope. These well known favorites are highly valued			
3244 Co	ollections Heliotrope, including	-		mixed		10	for their scented flowers. They			
	12 choicest varieties					90 50	should have light, rich soil.			
			1			30				

		/	gring	ation	ower.	Feet	3cket
	NUMBER and NAME,	00	Flow iness	dor of	Sht in	ber / Jeg	General Observations.
AF	$^{-1}$ /4 oz. at oz. rate only cn articles quoted at \$1 per oz. and over.	Time	Flowering Rardiness	Color of	Height in	Price per	
324 8	Helleborus niger	1 2	1	pink	1	cts. 10	Christmas Rose. Desirable; spring flowering.
	H esperis	,					See Rocket.
3252 3253 3260 3263 3264	Hibiscus Africanus, per oz., 30c. militaris	2 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	hP hS hP	yl.&br. rose w. & p. w. & p. rose	2 3 6 6 3	5 10 5 10 10	Showy Annuals. Distinct flowers. The Rose of Sharon. Large, showy flowers.
3265 3265a 3266 3266a 3267 3267a 3268 3268 3269	Crimson	2 3	3	white b. & w. crim. salmon yel. lav. mag. pink mixed	4	10 10 10 10 10 10 10 10 10 10 10 75 60	(Althwarosea.) These magnificent double varieties are grown from Chater's celebrated collection, which is admitted to have entirely revolutionized the popular estimation of the Hollyhock. They are of the finest shades of color, and in every respect most desirable.
3272	Honesty (Lunaria annua)	2 8	hB thB	pur.	2	5	Pretty plants, with curious silvery silicles.
3274 3275	Humea elegans	1 8	†hhP	rose white	5	10 10	Sweet-scented. Should be kept in pots first season.
3276	Hunnemannia fumariæfolia	2 8	3	yel.	1	5	Large, showy flowers.
3279	Hyacinthus candicans	٠	hBu	white	2 to 3	10	A fine summer Hyacinth.
3281	Hypericum elegans	{	hP	yel.	1½	10	Bright green leaves; large showy flowers.
	Iberis				/		See Candytuft.
3284	Ice Plant (Mesembryanthemum crystallinum) per oz., 50c.	2 3	B tA	white	1/2	5	Covered with watery vesicles resembling pieces of ice.
3286 3287	Impatiens glanduligera Sultani (fine plant)	2 3	gP	pur. scar.	$\begin{vmatrix} 1\frac{1}{2} \\ 1 \end{vmatrix}$	5 25	Beautiful; 3287 is very desirable and free blooming.
3292	Ionopsidium acaule	1 8	thhP	blue	1/4	10	Exceedingly pretty little plant.
3294 3298 3299 3300	Ipomopsis aurantiaca elegans	2 8 1 8	3	orange scar. mixed	1½ 3 1½ 3	5 5 5 5	Showy and beautiful; colors very bright. Seed should be started in the house.
3302	Iris Kæmpferi	1 %	hP	mixed	2	5	Beautiful Japan Iris.
3305	Isotoma petræa	1	hhA	cream	1	10	Showy and beautiful.
3308 3310	Jacob's Ladder per oz., 30c. White			blue white		5 5	Beautiful, hardy, old-fashioned flowers.
3312 3316 3320	Jacobæa, White Senecio Purple Senecio Mixed Collection of Jacobæas, including 5 varieties Dwarf Double	. ,		white pur. mixed	1	5 5 5 35	The Senecios are all free-flower ing plants, good for the border and for pots.
3322	*Joseph's Coatper oz., 40c.	410	3 tA	tri.	2	5	See also Amarantus.
3324 3327 3332 3333	Kaulfussia amelloides —atroviolacea —kermesina —Mixed per oz., 60c.			blue d. v. v. red mixed	1	5 5 5 5	Fine for edging; good habit and color. The high colors are best for pots.
3334	Lantana, Fine Mixed		gS gS		2	50	Rapid growing plants, forming small, bushy shrubs; exceedingly free in bloom.

	Time of	ring	olor of	AMO A	Price per	cket
NUMBER and NAME.	/5.5	Jess Jess			per l	General Observations.
* % oz. at oz. rate only on articles quoted at	ine in	Hardiness	Color of	Height in	rice	
\$1 per oz. and over.			, 6		cts.	
3336 Larkspur, Dwarf Rocket, oz., 30c. 3337 Tall Rocket 30c. 3338 Chinese 50c. 3342 Branching 50c. 3343 Ranunculus-flowered	2 3	thB hA thP hA	mixed blue mixed rose white	1 2 2 1 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Very ornamental, free blooming, hardy plants, of erect, branching habit; they are quite effective in masses or mixed bor ders, being very rich and varied in colors. The taller sorts are fine for shrubberies and the dwarf varieties for beds. They are easily cultivated, but for special attention they return splendid results. The soil should be dug deep and a liberal supply of well-rotted manure incorporated to obtain the best growth. For other sorts see Delphinium.
3348 Lasthenia Californica	1		yel.	1	5	A pretty yellow Composite.
3350 Lavatera trimestris	2	hhP	red white mixed red	2	5 5 5 10	Showy and free flowering. L . arborea has beautifully mottled foliage.
3354 Lemon Verbena	2 3	gP	white		10	Fine lemon-scented foliage.
3356 Leontopodium alpinum	3	hP	yel.	1/2	25	Curious; the "Edelweiss" of the Swiss Mountains.
3358 Leptosiphon aureus 3360 androsaceus 3361 —albus 3365 densifiorus 3374 hybridus 3375 Mixed per oz., 50c.	2	hA	orange blue white blue mixed	1 : : : :	5 5 5 5 5 5	Fine for edgings or rockeries; blooms in masses.
3378 Liatris pycnostachya	2 3	hhP	pur.	3 2	10 10 10	Blazing Stars. All handsome plants, blooming in summer and autumn. The tall kinds need stakes.
3388 Limnanthes Douglasii		hA	w. & y.	1	5	Free flowering and fragrant.
3390 Linaria bipartitaalba	2 3	hP hhA hP	white pur. rose violet	1/2 3/4 trai.	5 5 5 5	Snapdragon-shaped flowers; desirable for edgings, and very good for rockwork.
3394 Linum flavum	1 2	thhP hhA thP	yel. crim. li. &w.	3/4	10 5 5	Flax. Handsome, free-flowering plants. The tender kinds make pretty pot plants.
3395 Lisianthus Russellianus	2 3	gA	blue	1½	25	Fine; like the Gentians.
3395a Loasa aurantiaca		hhA hA	orange tri.	6 2	5 5	Elegant foliage, and flowers of curious structure.
Lobelia	3	hP thhP 	scar. blue white crim. rose b. & w. blue pur. mixed	2 1 trai. ½ trai ½ 1	10 10 10 5 5 10 10 5 5 10 10 10 5 6 60 40	All the Lobelias are suitable for beds, edgings and ribbon borders. L. gracilis is fine for hanging baskets or vases. L. E. speciosa and its varieties are the finest edging plants, and contrast beautifully with scarlet Geraniums. They should have a rich, open soil, and be provided with plenty of manure waterwhen beginning to flower. 3413 is a splendid new variety with deep blue flowers and distinct white eye.

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NUMBER and NAME,	4	OW GSS		F / .5	7 / 50	General Observations,
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Sht	00	. /
\$1 per oz. and over.	Time of	Hardiness	Color of	Height in	Price per	
3428 Lotus Jacobæus	1	gA	d. & br.	2	cts.	Pretty and interesting.
3430 tetragonolobus per oz., 20c.	2	hA	yel.	3/4	5	Winged Pea.
3431 Love-Lies-Bleeding, per oz., 20c.			crim.	3	5	((Amarantus caudatus.) Graceful, showy flowers, of tall habit.
3432 Love-in-a-Mist per oz., 25c.	1 2		blue	1	5	(Nigella.) Curious and ornamen-
3435 White Double	::		white blue	: :	5 5	tal; Fennel-leaved; easily
3438 White Spanish			white		5 5	grown and hardy.
3444 Lupinus albus	2 3		white	2	5	
3446 atroviolaceus		hP	v. & w.		5	A large genus of very ornamen-
3450 Cruikshankii			var.	-3	5 5	tal annual or perennial plants. No. 3479 grows five to six feet
3454 Hartwegii			b. & pk. white		5 5	high, and has immense racemes of lovely dark blue flowers. No.
3458 cœlestinus		hA	l. blue		5	3470 has very fragrant flowers,
3460 hirsutus			rose	$\begin{array}{c c} 2 \\ \cdot \end{array}$	5 5	nearly white when first open, and at length with tinges of
3463 hybridus insignis			d. red yel.		5 5	yellow and purple. Some varieties are especially charming,
3470 mutabilis		hP	var.	3	5 5	having spikes of highly colored
3479 nanus	$\begin{vmatrix} 1 & 3 \\ \cdot & \cdot \end{vmatrix}$	hA hP	b. & v. blue	$\begin{array}{c} 1/2 \\ 5 \end{array}$	5	flowers, silvery foliage and good habit. A rich loam will pro-
3480 —Mixed per oz., 30c. 3483 pubescens		†hB	mixed violet	3	5 5	duce the finest plants and flowers. The dwarf species make
3484 subcarnosus		hP	white	2	5 5	the best bedding plants. All the varieties are very free-flow-
3493 tricolor elegans		hA hP	sul.	3	5	ering, bright, attractive and
3498 Mixed Annual per oz., 20c. Collection of Lupins, including—		hA	mixed		5	easily grown.
12 choicest varieties					40	j
3500 Lychnis Chalcedonica	1 2	hP	scar.	2	5 5	Brilliantly colored border plants.
3505 —alba			mixed		5	3507 is a superb variety, and the origin of the beautiful Haa-
3507 fulgens	1	tP hP	scar. mixed	1	10 10	geana hybrids, which include the choicest colors.
3513 Madia elegans per oz., 50c.	2	hA	yel.	2	5	Handsome flowers; should be in a shady position.
3517 Malope grandiflora	2 3		red		5	Mallow-like flowers, very pretty;
3520 —alba			white mixed		5 5	sow early.
3524 Malva miniata (Sphæralcea Munroana.)		gP	scar.	4	5	Beautiful flowers; has been advertised as "Sunset Plant."
3530 Marigold, African . per oz., 50c.		hA	lemon	2	5)
3531 —Mixed			mixed yel.		5 5	
3533 —Nugget of Gold. "75c.			gold		5	
3535 —Gold Striped			strip.	$\frac{1\frac{1}{2}}{\cdot}$	5 5	(Tagetes.) Saved from finest double flowers. They are highly
3537 French			orange mixed	1	5 5	ornamental in the fall. The dwarf varieties are useful for
3540 Ranunculus " 50c.			strip.	1½	5	bedding. See also Calendula.
Choice collections, including— 8 vars. Marigold, Double French					35	
6 " " African					25 25	
3547 Martynia Craniolaria	2 3	hhA	w. & sp.	1½	5)
3549 proboscidea per oz., 30c.			vio.sp.		5 5	Curious and very handsome
3552 formosa			yel.		5	plants for the border.
3553 fragransper oz., 40c.			crim.	• •	5	See Floor O'Sheel
Marvel of Peru						See Four O'Clock.
3556 Matricaria eximia plena 3556a capensis plena		hA 	white	$\begin{array}{c c} 2 \\ \cdot \end{array}$	5 5	Feverfew. Pretty and neat; small double flowers.
3557 Mathiola bicornis		hhA		1/2	5	\ \text{Very fragrant at night, but closing during the day.}
3560 Melilotus cœrulea	3	hP	blue	1½	5	Ornamental; like the Lotus.
			Þ		'	

		/	ring/	olor of the Flor	LOAN / B	100	cket
	NUMBER and NAME.	or or	ness	of Fig.	it in	per p	General Observations.
40	¼ oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Height in F.	Price per	
3570 3573 3575 3576	Mesembryanthemum tricolor . —album	1 2	tA tP tA	tri. white yel.	1/2	cts. 5 5 25 10	Beautiful dwarf edging plants, flowering profusely in dry and sunny situations. Fine for pot culture.
3577 3578 3580 3581	Mignonette— Reseda odorata per oz., 15c. —grandiflora " 15c. —Golden Queen . per oz., 40c. ——Crimson Queen " 40c.	2 3	hA	w. bf. b. yel. crim.		5 5 5	, Feedman
3582 3583 3584	— — pumila compacta, Dwarf per oz., 50c. — — "Machet,"Dwarf " 75c. — — "Gabrielle" (robust) per oz., 75c.			w.&bf.	1/2 3/4	10 10 10	The well known "Frenchman's Darling." Highly scented and very desirable, flowering freely. If wanted in winter, seeds should be sown in July. Nos.
3586 3587 3588	— — Miles' Spiral . "40c. — — Giant Pyramidal "25c. — — Pyramidal Dwarf Bush per oz., 75c.			cr.&bf red w.&bf.	$\frac{1}{1\frac{1}{2}}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{3}{4}$	5 5	3583 and 3584 are fine for pot growing.
3590	-Parsons' White	-	.••		3/4	50	See Sensitive Plant.
3598 3603 3608 3610 3612 3613	Mimulus cardinalis	1 3 2 3 1 3	†hP hA 	scar. mixed r. & y. yel. spot.	1½	10 10 10 25 10 25	Monkey Flower. Very showy, musk-scented, and free flowering. The hardy kinds are well suited for borders. Any common soil suits.
3614	Molucella spinosa			rose	7	25	A splendid new Shell-flower, with very fine foliage.
3620	Monk's-hood		gP	y. & br.	10	25	See Aconitum See Scabiosa. Abyssinian Banana; splendid
3625 3627	Musk Plant	1 3	tA	yel.	1/2 1/8	10	tropical plant. Musk-scented Mimulus.
0041	Myosotis				/ 5		See Forget-Me-Not.
3633 3639 3645 3647 3650 3652 3654 3663 3664 3663 3664 3672 3674	-Crystal Palace Gem ' 15cMixed ' 10c. Cattell's Dwarf Crimson Collections of Nasturtiums— 12 vars. Dwarf Tom Thumb		hA	s. spot. black blue red golden cream scar. rose crim. var. golden yel.&r. scar. y. & cr. mixed crim.	3/4	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(Tropæolum.) Beautiful bedding plants. Planted in poor soil they flower profusely, and for a long time. The colors of the flowers cannot be excelled. The dwarf varieties should be planted so that they will contrast either with white or blue flowers. The foliage is also beautiful, being generally dark green. Empress of India is a splendid variety, with very dark foliage and beautiful crimson flowers.
3677 3678	Nemesia compacta alba		tA.	white ro. & b.	1½	40 5 5	Very pretty and neat flowering plants for edges.
3680 3682 3684 3686 3694 3698 3700	discoidalis		hA	w.&pu. b. & w. pur. blue white bord. spot mixed	1/2	5555555	This genus consists of very pret- ty annuals of easy growth, and deserves extensive cultivation; are good in pots and edgings, in rockeries or in the garden.

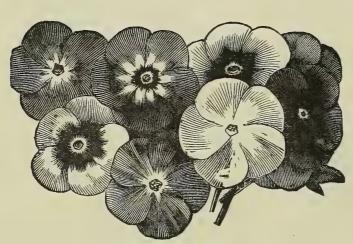
		/	ring	r of the Fr.	Wer.	teet /	oket
NUMBER and NAME,		of Jo	ness	of Fig.		per	General Observations.
14 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Lime		Hardiness and r	Color of	Height in E	Price per	
3701 Nertera depressa	2	3	gP	white	cr.	cts. 25	Plant bearing coral berries.
3702 Nicotiana affinis (fragrant) 3702a colossea			hhA		3 10	5 30	Species of tobacco valuable as decorative plants; deliciously fragrant flowers.
3703 Nierembergia gracilis			gP hP	w. & li.	$\frac{1}{2}$	10 10	Handsome flowers; fine for hanging baskets or edgings.
Nigella							See Love-in-a-Mist.
3707 Nolana atriplicifolia			hA	b. w.&y. white	1/2	5 5 5	Are very showy when in flower,
3713 lanceolata				b. & w. b. & v. blue	1 trai.	5 5	and should be planted in the border; fine trailing plants.
3719 Mixed per oz., 20c.				mixed	1	5	
3720 Nycterinia selaginoides	2		hhP	pink w.b.	3/ ₄	5 5	Pretty dwarf plants.
3722 Obeliscaria pulcherrima		2	†hP	r. & y.	_ 3	5	Showy bedding plants.
Œnothera							See Evening Primrose.
3727 Orobus lathyroides		3	hP ···	blue purple	1½ 3	5 5	These deserve a place in gardens; fine pea blossom.
3733 Oxalis Valdiviana		2	tP	yel.	1/2	10	Charming little plants. Showy Composite.
3740 Pæonia officinalis		3 2	hA hP	red	trai. 1½	5	Beautiful hardy plants, with large, handsome flowers.
3744 Sinensis		3	hA	blush	• •	10 5	Very good Everlasting.
3750 Palava flexuosa	1	3	hhA	pk.& d.		5	Pretty.
3752 Pansy ,*Bl'k "Faust",p'roz.,\$1.25		3	hA	black	1/2	10	
3754 Quadricolor				violet 4-color		10 10	(Viola tricolor.) Heart's-ease. All
3758 *Emperor William . " 1.50				strip.		10	the varieties are saved from fine, choice flowering plants.
3759 Fawn Color				fawn l. blue		10	They cannot be surpassed in color or blooming qualities.
3762 Violet-margined 1.25 3763 *Gold-margined				mar.		10	They should be carefully cultivated, and will richly pay for
3765 *Five-blotched (Odier) "6.00	-	•		spot		25	good treatment in their large
3766 *Bugnot's Superb Str'n ' 12.00 3767 *Trimardeau Giant . ' 3.00		. •				10	flowers and foliage. The seeds should be sown early in autumn
3767 <i>a</i> Trimardeau Yellow " 4.00 3768 *Black Blue " 1.25		٠		yel. bk.&bl.		25	if large flowers are expected, and preferably in a frame. If
3769 Bronze			4 4	bronze		10 10	sown in spring the flowers will not be as large as from seed
3773 *Azure Blue		:		blue		10	sown in autumn. No. 3766 has
3781 *Candidissima,		•		yel.		10	exceedingly beautiful, extra large flowers, with very broad
"Snow Queen"" 1.25		•		white dk. pur.		10	blotches and upper petals finely lined. 3787a is the richest and
3787 —alba marginata . " 1.25		,		pr.&w		10	most choicely varied mixture
3787a *Thorburn's Superb Large Strain 7.00				mixed		25	ever offered. It produces only the handsomest colors and fin-
3788 *Mixed				41 1		10 5	est forms, and these in great diversity. The collections here
Choice collections, including— 24 vars. Pansy or Heart's-ease				,		1 05	offered merit special attention, and are sure to give splendid
18 " " " " "			,			1 25 1 00	results. Those marked thus (*)
8						75 60	are best for bedding.
6 " " " " " " 8 " Giant Pansy					~	50 75	J
Paris Daisy							See Chrysanthemum frutescens.
3790 Pelargonium, Fancy	2	' 3	gP	mixed	2	25	Beautiful greenhouse plants.
3804 Pentstemon Clevelandii 3810 antirrhinoides			hP	crim.	3	10 25	Among the most beautiful of our herbaceous perennials, and
3812 heterophyllum	.	•		blue bl.&r.	2 4	10	should be grown extensively, being very hardy and free flow-
3824 Mixed European per oz., 50c		•	: :	mixed			ering; fine for bedding.

			ng/	ion /	rer /	Price per	kot
	NUMBER and NAME.		diness	olor of	Height in	# / # / # / # / # / # / # / # / # / # /	General Observations.
		Time of	Hardiness	Color of	Sht	θ _c	deneral observations.
49	1/4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Tim	Han	700	$H_{\theta j}$	Pric	
3830 3837	*Perilla Nankinensis, per oz., 20c. *laciniata 30c.	2	hhA	pur.	1½	cts. 5	Ornamental - leaved; for ribbon gardening and beds.
3840 3842	Persicaria, Red	3	hP	red white		5 5	Showy for backgrounds.
8848 3849 3850 3851 3852 3853 3856 3856 3858 3860 3862 3863 3864 3866 3867 3868 3870	Petunia hybrida— Large-flowered, White —Intus aurea —Crimson —Purple —Rose —Superbissima, tigered throat —Superb, single, mixed —Fringed White —Crimson —"Titania" —Mixed —Fringed Mixed —Fringed Mixed —Fringed Mixed —Fringed Mixed —Inimitable Dwarf Venosa (veined) Mixed Single per oz., \$1.25 Collections of Petunia, including: 12 vars. Fine Large-flowering 6 "" 12 "Double Fringed 6 "" 12 "Double Large-flowering 6 ""		†hhA	white yel. crim. purple rose mixed white crim. purple mixed white pr.&w. mixed	11/2	10 25 25 25 25 25 25 25 25 25 25 25 25 25	These are very ornamental plants, producing freely fragrant and beautiful flowers, and continuing a long time in bloom. They do well in the garden, house or conservatory, and will thrive in almost any sort of soil. The newer varieties are of brilliant colors and fine form. 3867 is a dwarf bushy variety, with regularly striped flowers, and is very effective, either in masses or in pots. 3853 is-a splendid variety with very large tigered throat. "Titania" is a lovely new sort, of a velvety purple color, with a broad, white band round the edges of the petals. "Lady-of-the-Lake" is a most charming double fringed pure white variety. The collections of Largeflowering and Double Fringed here offered contain only the finest varieties.
3872	Phacelia congesta	2	hP	pur. bl.		5	Excellent for bees.
3873 3875 3880 3888 3893 3900 3901 3903 3906 3916 3917 3921 3923 3925 3926	Phlox Drummondii alba —atropurpurea striata —Black Warrior —variabilis atropurpurea —Leopoldi —Radowitzii —rosea —oculata alba —Hortensiæflora —coccinea —cuspidata (Star of Quedlinburg) —per oz., \$1.50 —Dwarf Crimson Bouquet —per oz., \$1.50 —Dwarf White Snowball —Dwarf Fireball —Dwarf Francy Mix'd . oz.,\$2.50		hA	white strip. d. red pur. w. cr. white rose w. & l. rose scar. mixed crim. white fire mixed	1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	The name is from phlox, flame, in allusion to the general brilliancy of the flowers. This is a very elegant genus of flowering plants, being highly colored, especially P. Drummondii, an annual, the varieties of which are of the prettiest colors. A bed of these will be highly prized for good habit, richness of col-
3927 3931 3932 3933 3934 3935 3936 3936 3937 3940 3942 3943 3944	-Mixed		hP	rose blue d. red w.&sc. scar. white rose sc.&w. crim. mixed white red mixed	1	10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	or, and duration and profusion of bloom. All grow well in pots or as trailers. By making two or more sowings they will flower till frost. Should be grown in rich, loamy soil, and given plenty of water. Especially fine effects may be had by planting masses of contrasting colors.
3947 3949 3951 3957 3960	Picotee, White Ground Yellow Ground Slate Ground Mixed —Extra Fine	• • •	hhP	w. & sp. y. & sp. slate mixed	2	50 50 50 10 50	From showy varieties. Very rich and beautiful, and finely scented; few flowers are more attractive.

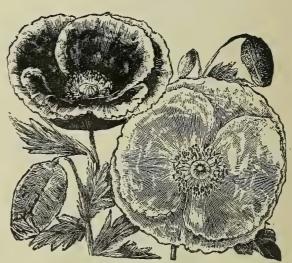




ZINNIA ROBUSTA.



PHLOX DRUMMONDII.



POPPY, THE SHIRLEY.



"TOM THUMB" NASTURTIUM.



ROMNEYA COULTERI.



PINK, DIANTHUS CHINENSIS.

		,	ing	lon /	Height i.	Price per	ket
NUMBER and NAM	E.	/4	Hardiness	olor of	Sht :	10,	General Observations.
1 oz. at oz. rate only on artic		Time of	rdin.	Color of	$\frac{1}{\sqrt{ght}}$	ice p	
\$1 per oz. and over.	res quoteu at	/iii	Han ,	9	/ #	\\ \mathbe{\pi_{2}}{\pi_{1}}	
Pink— Dianthus						cts.	
3963 —Chinensis, Double I	Mixed	2 3	+hB	mixed	1	5	(Dianthus). Beautiful and ornamental genus; for beauty and
3965 ——Double White				white		5	sweetness contains some of the most prized flowers we possess.
3969 —Heddewegii, Single	oz., \$1.00			mixed		5 10	The leaves of the hardy perennials are green all winter.
3973 — — diadematus, D'ble	e " 1.50					10	Many can be grown in pots and
3977 ———Double Mixed	1.25					10	kept in the house. No garden should be without some of the varieties of the Dianthus fam-
3979 —imperialis, Double M 	r oz., 50c.			red		5 5	ily, which for color and fra-
3983 ——Dwarf Double W	hite			white	8/4	5 5	grance cannot be surpassed. Pinks succeed well in any fairly
3986 ——Dwarf D'ble Mix' 3988 ——Plumarius, "Pheasa	nt's Eye,''				1	5	rich soil, but when the produc- tion of large flowers is aimed at,
fringed per 3995 — Semi-double Gras	s Pink		::			10	a bed of turfy loam, leaf-mould and well-decomposed manure
Collections of Pinks, incl 12 vars. Fine China	· · · · ·					50 40	should be specially prepared for them.
8						30	(Dala grann many lagrant fro
4014 Pittosporum undulatur	m	1 2	gS	w. & y.	3	10	Pale green, wavy leaves; fragrant flowers.
4016 Platystemon California		2 3	hA	yel.	1	5	California Poppy.
4018 Platycodon grandifloru 4019 —album		2	hP	blue white	3	10	Large Chinese Bell flower; very fine flowering plants.
4022 Podolepis chrysantha 4023 —affinis		2 3	hhA	yel.	1/2	5 5	Curious and pretty.
4025 —gracilis				red		5	
Polomonium		1 3	thP	mixed		10	See Jacob's Ladder, No. 3308. (Primula.) Fine varieties.
4030 Polyanthus		1		inixed		25 25	From named varieties.
4034 Gold-laced			* 6			20	
4035 Papaver bracteatum. 4036 — Mephisto (scarlet a	nd black			red	2	5	(Papaver.) Very showy and free
spots, with other s	shades) .		hA thP	mixed d. red		5	flowering. For beds or borders, with a background of
4037a — "The Shirley" (a fir tinct race) pe	ne and dis-		h A	mixed		10	green, they are beautiful; admirable for naturalizing in
4037b —Flag of Truce (larg white) per	e, single			white	3	10	woody spots; they are also fine for cut-flower use. Seed should
4038 —glaucum (Tulip Pop 4039 —nudicaule	ру)		†hP	scar. yel.	$\frac{1\frac{1}{4}}{2}$	10 10	be kept from forming to secure continuous flowering. They
4040 ——aurantiacum 4041 ——album				orange white		10 10	are easily cultivated, the most suitable soil being a sandy loam.
4042 —umbrosum			hA	crim.	$1\frac{1}{2}$	5 5	4037a is a magnificent variety of recent introduction, unsur-
4046 —Double White				white		5	passed for beauty of coloring and gracefulness of form. 4037b
4047 ———Fringed 4048 ——Scarlet				scar.		5	is a superb, large, single white variety, growing about three
4050 — "American Flag".				w.&cr.	2	5 10	feet high; very valuable for
4052 ——Carnation-flower'd 4054 ——Pæony-flowered	. " 20c.			mixed	1½	5 5	cut-flowers, 4038 is called the "Tulip Poppy" on account of
4055 ——Ranunculus-flow'd	cluding-	• •	• •		• •	5	the intensity and brilliancy of its flowers, resembling the scar-
12 vars. Double Carna 12 " Pæouy-flower	ed	,				50 50	let Duc Van Thol Tulips. 4050 is of very dwarf, compact and
6 " D'ble Dwf. Pa 6 " Ranunculus-fl						30 30	robust habit and is brilliantly variegated in scarlet and white
4067 Portulaca splendens . 4069 Red Carnation-striped		2 3	tA	pur,	1/2	5 5	These cannot be rivaled for the
4070 Thellusonii		•, •	• •	strip.		5	brilliancy and delicacy of their
4072 albiflora			• • •	pink white		5 5	colors, and are very effective in beds, edgings or rock-work.
4074 aurantiaca				orange yel.		5 5	The last seven have double ble flowers, and are very beau-
4090 rosea striata		1	1	ro.str.		5	j tiful, many of them resembling

		/	ing/	ron/	104	leet /	ket
	NUMBER and NAME.	05	ness	olor of the Flor	t in y	per	General Observations.
199	¼ oz. at oz. rate only on articles quote! at \$1 per oz. and over.	Time of	Hardiness	Color	Height in Fo	Price per	
4092 4097 4100 4107 4111 4114 4117 4118 4120 4127 4130	Portulaca (continued)— Mixed per oz., 50c. Large-flowered Rose —Salmon Double Scarlet —Orange —Carnation-striped —Salmon —White —Purple	2 3	tA	mixed rose salmon strip. scar. orange car. st. salmon white pur. mixed	1/2	5 5 5 5 5 25 25 25 25 25 10 60 60	miniature roses. The seed of these always contains many single flowers, which bloom earlier than the double ones, and may in this way all be pulled out before the double ones come into flower. Portulacas bloom best in a light, sandy soil. They will not germinate till hot weather sets in, and seed should therefore be sown late.
4133 4137	Potentilla atrosanguinea		hP	pur. mixed	1½	10 5 75	Showy and hardy border plants.
4138 4140 4141 4143 4145	Primula obconica	2	†gP hP	white red rose mixed yel.	1/2 1 1/4 1	25 10 25 10 10	The P. Japonica is called the "Queen of Primroses." P. ob- conica makes a beautiful pot plant, remaining long in bloom.
4156 4157 4158 4159 4161 4161 <i>t</i> 4163 4169 4170 4171 4174 4193 4195	Mixed		gP	fr. red b. red white pur. sp. blue crim. mixed white rose mixed red white mixed red white mixed	34	25 25 25 25 25 25 25 25 25 25 25 25 25 2	From primus, first, referring to their early flowering. The Chinese Primroses (Primula Sinensis) are fine for winter and spring blooming; they are free-flowering, and especially valuable for cut flowers or for house and window culture; a cool place suits them best. The seeds are saved from the finest colors and largest flowers. The seed should be sown in light soil, but for the final potting a richer soil is necessary, consisting of two parts loam to one each of well-decayed manure and leafmould. They require to be well ventilated, well watered and slightly shaded throughout the summer. The collections here offered contain the finest varieties grown.
4203 4205 4207 4210 4220 4222 4227 4230	Primrose, Evening— (Enothera bistorta	1 3 2 3	hA hB tA hA	pur. yel. rose white mixed	2 1 3 1½ ½ ½ div.	91 91 91 91 91 91	The Enotheras are fine, free-flowering plants, best for back-grounds or shrubbery borders; E. acaulis has large, shining white flowers quite transparent. E. Drummondii is of rich sulphur color; profuse flowering.
4233 4235 4237 4237	Tchihatchewii	$\begin{bmatrix} 1 & 3 \\ 2 & 3 \end{bmatrix}$	hP	dk.sc. white yel.	1	5 5 5 5	The last two, known as Golden Feather, are fine for edgings; No. 4237 makes a moss-like tuft.
4254 4255			hP	white	3	5 5	Ornamental Rhubarb.
4258	Rhododendron arboreum :		hS	mixed	10	25	Grand evergreen shrubs.
4270 4270 4275 4276 4277 4278 4280	a Africanus		hh A	violet div. violet d. pur. blue d. pur.	15 8 5 6 5 6 5	5 5 5 5 5 5 5 5	The Castor Oil Plants are free growing, tender annuals; very ornamental, and quite tropical in appearance when planted

J. M. THORBURN & CO.'S CATALOGUE OF SEEDS.								
A.	NUMBER and NAME. % oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness and p.	Color of	Height in E	Price per	General Observations.	
4288 4289 4289a	Ricinus (continued)— sanguineus	2	hhA	red pur. mixed	6	5 5 5 50 30	singly on lawns; also much used for centers of sub-tropical beds. 4277 is the handsomest and most graceful Ricinus, with foliage and stem nearly black.	
4290 4294 4295 4300	Rivina humilis	3 2 3	gP hhP †hP	white w.&pur. white	2	10 10 5 5	Ornamental in fruit. For green- houses. California Tree Poppy. Fine flowers resembling a Poppy. Free blooming and very sweet scented.	
4325 4327 4328 4329	Rose Campion	2		rose white red mixed	1	5 5 5 5	Free blooming and exceedingly pretty.	
4330 4333 4334	Rose of Heaven per oz., 30c. White	2 3	h A	rose white rose		5 5 5	(Agrostemma.) Free - flowering and easily grown. See Hibiscus Syriacus.	
4350	Rudbeckia amplexicaulis	2	hP	yel.	3	5	Showy,largeyellow flowers, with brown cone.	
4356 4360 4366 4367	Salpiglossis azurea	2 3	hhA	blue scar. mixed	1 1/2 1	5 5 5 5 40 40 35	These annuals have very showy, large, funnel-shaped flowers, mottled, veined and self-colored; fine for beds. They require a rich soil, and will well repay liberal treatment.	
4370 4380 4387 4388 4389 4390 4391 4392	Salvia argentea patens Rœmeriana splendens —grandiflora —New Apple-blossom —New Cherry Red —compacta erecta, dark	3	†hP †tP hP †hhP	white blue crim. scar. l. pk. cherry d.scar	1	5 25 5 10 25 25 25 25	Sage plants are well known for their brilliant colors, and no plants can be finer for bedding. They are easily grown, free-flowering and showy. 4390 and 4391 are novelties of great beauty.	
4394	Sanguinaria Canadensis	2 3	hP	white	1/2	10)	
4397	Sanvitalia procumbens fl. pl		hA	yel.		5	Pretty Composite for beds.	
4400 4403 4410	Saponaria Calabrica, per oz., 40c. —alba	1 2	hP	red white red	1 1/2	5 5 5	Pretty dwarf bedding plants. Should be cultivated for their beauty and long blooming.	
4414 4415	Saxifraga Aizoon	2	hA	white	1 1/2	25 25	Curious little plants; especially adapted for rock-work.	
4417 4418 4420 4422	Scabiosa candidissima —Double Snowball Mixed Tall per oz., 40c. Dwarf Double Mixed " 50c. Collections Scabiosa, including— 8 vars. Dwarf Double 6 " " " " 8 " Tall Large-flowered 6 " " "	- •		mixed	2½ :: 1½	5 5 5 5 35 30 35 30	The Mourning Bride is a showy border plant, with beautifully variegated flowers. It succeeds in ordinary garden soil.	
4425 4427 4430 4433 4436 4410	pinnatus		hhA	s. & o. p. v. bk eyd r. & o. white mixed	2	5 5 5 5 5 5 5 30	Elegant and very free-blooming annuals. Large, beautiful flowers of many colors, blotched, dark purple, and spotted with orange; fine for bedding. Grown in pots in early spring in greenhouse, they become fine foliage plants, with mass of blossoms.	
4443	Schizopetalon Walkerii	. 1 2	hA	white	3/4	10	Curious fringed fragrant flowers.	

		/	/	$\frac{Werin_{eta}}{s_{S}}$	olor of	Height in E	4.66	/	Packe.
	NUMBER and NAME.		Pi	in in the second	of be	ht,		pe	General Observations.
100	¼ oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time	7	Hardiness and D.	Color of	Heig		901.7	General Observations.
4450 4453 4454	Sedum cœruleum		2	hA hP	blue yel. mixed	1/4 1 3/4	C	ts. 10 10 10	Stone Crop.) Showy little plants; excellent for carpet beds. Plant in sandy soil.
	Senecio elegans								See Jacobæa.
4455	Sensitive Plant per oz., 75c.	2	3	tA.	pink			5	(Mimosa.) Pretty and curious.
4460 4461 4462 4463 4464 4467	Silene Armeria —alba	1		hA hP hA	red white mixed rose red rose	1 2 1		5 5 5 5 5 5	(Catch-Fly.) Bright colored free- flowering annuals suitable for rock-work or open border. S. pendula is largely grown for spring flower gardening. They succeed in any light, loamy soil.
4475	Smilax (Myrsiphyllum aspara- goides) per oz., 75c.	2	3	gP	white	6	-	10	For table and house decorations. Fine for florists.
4480 4483 4485 4488 4490 4492 4493 4495 4497 4498	Snapdragon— Delida, carmine and white			†hP	c. & w. cr. & w. strip. s. & w. scar. white yel. mixed	1½		55555555555555555555555555555555555555	The Antirrhinum is one of the finest border perennials. The Tom Thumbstrain is admirably adapted for bedding, being very dwarf and free-flowering. Light soil, well enriched with manure, is most suitable for them.
4 500	Sphenogyne speciosa		3	hA	yel.	1		5	Pretty, showy annuals.
$\frac{4502}{4504}$	Spiræa ariæfolia	1	2 2	hS hP	white	3 3 to 4		10 10	Beautiful shrubs, flowering pro- fusely.
4507	Spraguea umbellata	2	3	hhA	rose	1/2		25	Fine for rock-work or edges of flower beds.
4509 4514 4515 4516	Statice Bonduelli	$\begin{vmatrix} 2 \\ \end{vmatrix}$	2 . 3	gP hP gP	yel. mixed blue white	1½	-/	5 5 5 5	See Lavender; beautiful for winter bouquets. Pretty little flowers, which ought to be in all gardens.
4 518	Stenactis speciosa			hP	purple	2		5	Showy purple Composite.
4 520 4 525	Stephanophysum longifolium Stevia serrata	i	2	hhP gP	scar. flesh	1½		25 10	An Acanthaceous plant, with bright colored flowers. Fine for bouquets; scented.







SNAPDRAGON.

40 80

60

50 50

50

1 00

Rardiness and Duration NUMBER and NAME, the 1 General Observations. Price . $\frac{1}{2}$ oz, at oz, rate only on articles quoted at \$1 per oz, and over. Stocks (German Ten Weeks)— Dwarf Snowflake Forcing . . . White Dresden Perpetual . . . 4528 1 2 hhAwhite 1 25 25 4529 . . "Cut-and-Come-Again," oz., \$3 Dwarf Large-flowering— —White per oz., \$4 —Canary Yellow 11/2 10 4530 (Mathiola.) These seeds are saved from the finest double varie-1 4531 . . ties. Unsurpassed for bedding, yel. ties. Unsurpassed for bedding, massing, edging or pot culture, being very free and long bloomers, and of much diversity and brilliancy of color. They are also very attractive in form and richly fragrant. The double white sorts are largely used in summer for bouquets and floral work. In this latitude, Stocks should be sown from the middle of March to the first part of 4532 4533 . . crim. . . 10 brown 4534 10 . . blood 4535 . . 10 car. 4536 10 rose 4537 . . 10 l. blue 4538 10 d. red 4539 25 mixed 4539a10 white 4540 25 4541 mixed . . 10 . . of March to the first part of May, on a spent hot-bed, or in white 4542 10 . . 4543 crim. 10 pots or shallow boxes in a frame mixed 4544 10 · . Dwarf German Bouquet — Mixed . . . per oz., \$2.50 Ordinary Mixed . . . 1.00 Stocks (Autumnal, etc.) or in the house; and when an 4545 10 inch high, they should be transplanted into fine soil, which 4546 10 1½ 4547 should be spread over a discarded hot-bed, from whence they 25 2 3 white 4548 Intermediate White hhB 25 can be bedded out when three **454**9 crim. 25 or four inches high; this should mixed 4550 be done before or during show-ery weather. Transplanting several times in the early stages white 25 4551 crim. 25 4552 25 mixed 4553 of growth tends to give them a more compact and dwarf habit. 4554 25 scar. 25 white 4556 Stocks do well sown in the open ground from the middle to the 10 4558 mixed 4560 crim. 25 last of May. 4562 white 4564 4567 scar. mixed 4573 CHOICE COLLECTIONS OF STOCKS. We invite special attention to the collections here offered; they contain only the very choicest varieties. GERMAN TEN WEEKS. . . . 1 00 18 12 66 66 75 8 '' '' 6 '' '' 12 Large-flowering Emperor '' 6 '' '' 12 Dwarf Bouquet. '' 50

1 25

85

60

50

60



10 Pyramidal Dwarf Large-flowering

18

12

66

DWARF GERMAN STOCK.



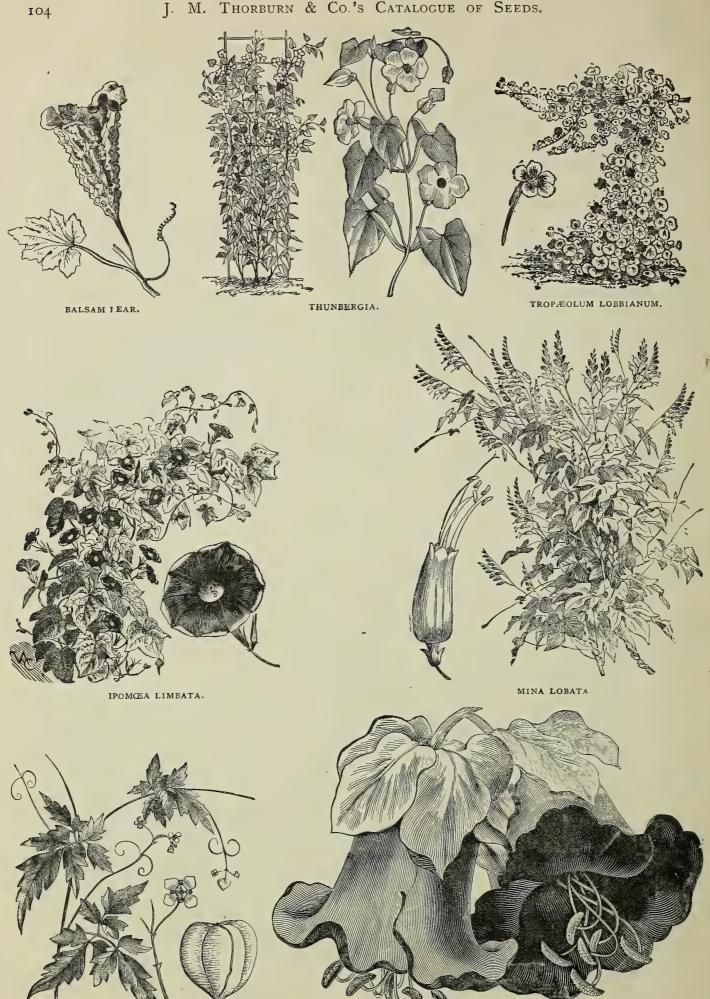
4 East Lothian Autumn
12 Fine Winter
8 "
6 "
1 "

6 Warf Bouquet Winter.
6 Corcadeau Winter.
12 Double German Wallflower

WALLFLOWER-LEAVED STOCK.

	Time of	- Kag /	dor of	Height in E	Price per	ket
WIIVERD 1 WAVE		SS SS	rat.	107 × 101	1 /2	
NUMBER and NAME.	400	Hardiness	Color of	ht	be be	General Observations
% oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Jime.	Jard	0700	Yeigh	rice	
	1				cts.	Bell-shaped flowers, followed by
4573a Styrax Japonica	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	hS hA	white pur.	$\begin{vmatrix} 6 \\ 1\frac{1}{2} \end{vmatrix}$	10 5	white berries; fine.
4577 White			white		5	(Centaurea.) Pretty border an-
4580 Yellow			yel. mixed		5 5	nuals, with fragrant flowers.
Sunflower (Helianthus)—			1		~	Denives its name from the norm
4583 Single Russian per oz., 10c. 4584 Single "Henry Wilde"	3		yel.	5	5 5	Derives its name from the popular supposition that its large
4585 —Primrose-colored					5 5	heads of flowers follow the sun in its course. Showy for back-
4588 cucumerifolius (cucumber-l'v'd. 4589 argophyllus, "Texas Silver	2 3			3	5	grounds and shrubberies. Like the Eucalyptus, good to absorb
Queen"	3		 a	4	5	the miasma of low grounds.
4590 California Double . per oz., 20c. 4591 Globe-flowered Double " 20c.	2 3 3		d. y. yel.	$\begin{vmatrix} 2 to 5 \\ 3 \end{vmatrix}$	5 5	The large flowers are very rich and effective. No. 4589 has sil-
4592 Green-centered Double "20c. 4593 Dwarf Double "20c.	2 3		y. & gr. yel.		5 5	very foliage and very handsome small flowers.
4594 Variegated foliage	3		var.		5)
4597 Swainsonia atrococcinea Swan River Daisy		gP	red	2	25	See Brachycome.
Sweet Peas						See Lathyrus.
4598 Sweet William , Mixed, peroz., 25c. 4598a Pure White		hP	mixed white	$1\frac{1}{2}$	5	(Dianthus barbatus.) A very pop-
4598b Auricula-flowered			mixed		5 5	ular free-flowering favorite.
4598c Dunnettii			d.crim. mixed		5 5	producing large heads of beautiful colored flowers. Very ef-
Collection, including 6 varieties Sweet William					30	fective for bedding.
4602 Tacsonia Van Volxemii		gP	scar.	10	25	Beautiful greenhouse vine.
4605 Tagetes lucida	2	tP	yel.	1	5	Pretty, and fine for bedding.
4607 signata pumila		hA			5	See also Marigold.
4610 Tassel Flower, Scarlet	2		scar. orange mixed	$egin{array}{c} 2 \\ \vdots \\ \end{array}$	5 5 5	The Cacalias are pretty annuals, with neat flowers.
4614 Thermopsis Caroliniana		hP	yel.	1½	25	Pretty leguminous plant.
4614a Tigridia Seed	$\begin{bmatrix} 2 \\ 2 \\ 3 \end{bmatrix}$	hP tA	mixed pur.	1 1	10	"Tiger Flower.") For borders and baskets. 4615b
4615a — "White Wings".			white		25	is golden yellow, with deep red
4615b Bailloni	$\begin{vmatrix} & \cdot & \cdot \\ & 2 \end{vmatrix}$	†hP	yel. blue	$1\frac{1}{2}$	25 5	throat; 4615 is fine for pots. Very showy when in flower.
4617 Tradescantia angulosa	3	gP		1	10	Interesting plant.
4617a pilosa		hP	• •	2	10	An amamantal alawan
4618 Trifolium suaveolens	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	hP hhP	or, red	trai.	5 10	An ornamental clover. Strong flowering plants; have
4620 corallina					25	very showy spikes of bloom.
4622 Tunica saxifraga	2		white	1 9	5	Pretty for rock work.
4624 Valeriana alba	$\begin{vmatrix} 1 & 2 \\ \cdot & \cdot \end{vmatrix}$	†hB	red	3	5 5	Fine border plants; sweet scent- ed flowers.
4627 Mixed	2 3	hhA	mixed	1	5 5	Pretty.
4630 Venus' Looking-glass . oz.,25c.		hA	orange blue	3/4	5	Specularia.) Pretty; good edg-
4633 White			white		5	(ing plant. A handsome border flower, easily
4635 Venus' Navelwort (Omphalodes linifolia)	2			1	5	grown.
Verbena hybrida— 4637 Scarlet	2 3	hhP	scar.	trai.	10	
4640 Scarlet Defiance			scar.		10	All of this genus are extremely beautiful and ornamental, flow-
4643 candidissima (pure white)			white		10	ering profusely either as pot
4644 auriculæflora		::	mixed strip.		10	plants or in the garden. Our seeds are saved from fine
4648 cœrulea			d. b. mixed		10 5	named varieties, and will produce healthy plants, with flow-
4650 Finest Mixed per oz., \$1.50	1		mixed		10	ers of fine colors.
4651 Mammoth Mixed Collection, incl'g 6 vars, Verbena.			mixed		25 50	

		/	ring	olor of	Jewer /	Feet	cket
ł	NUMBER and NAME.	0,00	TOWe Iness		it in	ber /	General Observations.
A	1/4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Height in	Price per	
4653	Veronica, Mixed	2	hP	mixed	1/2	cts.	Pretty for border; fine colors.
	Vesicaria (Alyssum) sinuata Vicia Gerardi	2 3	h A	yel.	1 4	10	Pretty pea-shaped flowers.
	Vinca alba (pure white)		tP	white rose		10 10 10	Fine for conservatory, parlor windows, and border or beds; very pretty.
	Violets, Sweet-scented The Czar	1 2		blue	1/2	10 10 10	(Viola.) All have great beauty and fragrance. The seed takes a long time to germinate.
	Viola cornuta, Purple Queen —alba		hP	pur. white		10 10 10 10	Fine and early flowering. See
	Virginian Stock per oz., 20c. White	• •	hA	red white	1	5 5	(Malcolmia maritima.) Early flow- ering and fine.
4680a · 4681 4681a 4681b	Viscaria elegans pictaoculata	2 3		sc. & w. rose white mixed	1½ ¾	5 5 5 5	Abundant blooming hardy annuals, very effective in massing. They are easily grown, and succeed best in light, rich loam.
4682 * 4684 4686	Wallflower per oz., 50c. Mixed	1 3	tP	brown mixed	1½	5 5 10	Favorite sweet-scented flowers, of fine colors; useful as spring bedders.
4688 4689 4692	Whitlavia grandiflora, per oz., 40c. —alba		hA	pur. white b. & w.		5 5 5	Pretty bell-shaped flowers; free-flowering.
4693	Worms	2 3		scar.	1	5	Seeds are very curious.
	Wigandia Vigieri		†tP	red	4	10	Fine tropical leaves.
4696 3 4701 4703 4705	Yucca baccata brevifolia		hhP	gr.wh.	3 15 4 2	10 10 10 10	Very showy, attractive plants for the sub-tropical garden, with numerous large white flowers.
4706 2	Zauschneria Californica		hhP	scar.	1	25	California Fuchsia" or "Hum- ming-bird's Trumpet."
4707 4707a 4708a 4709a 4709a 4710a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4711a 4712a 4712a 4720a 4721a 4721a 4722a 4723	Tall Carmine per oz., 40c. —Crimson "40c. —Flesh-colored "40c. —Lilac "40c. —Purple "40c. —Rose "40c. —Scarlet "40c. —Violet "40c. —Yellow, Sulphur "40c. —Yellow, Sulphur "40c. —Mixed "30c. —Pompon "75c. —Pompon "75c. —Dwarf Crimson 50c. —Salmon "50c. —Scarlet "50c. —Scarlet "50c. —Variegated Foliage 50c. —White "50c. —Variegated Foliage 50c. —White "50c. —Yellow, Sulphur "50c. —Yellow, Sulphur "50c. —Yellow, Sulphur "50c. —Variegated Foliage 50c. —White "50c. —Yellow, Sulphur "50c. —Haageana, Double "1.25 —Gen. Jacqueminot ollections of Zinnia, including—10 vars. Beautiful Double	2 3	hA	car. crim. flesh lilac pur. rose scar. violet white yel crim. pur. salmon scar white yel mixed white yel. d.red	2	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Fine bedding and border plants, blooming long and abundantly. Beds of these are greatly admried. The colors are varied and bright, and the plants easily grown. Should be more extensively cultivated, as the varieties have been much improved of late. 4721 and 4721a arevery dwarf double varieties, forming compact, free-flowering bushes; fine for edgings. 4715 has most magnificent, extra-large blossoms of rich colors. 4723 is a splendid new dwarf variety of the color of the Jack Rose. The collections here offered will be found very choice, and are sure to give satisfaction. Zinnias succeed best in a rich, deep, loamy soil, and in a sunny situation.
	6 " Dwarf Double					40 50 40	



BALLOON VINE. COBÆA SCANDENS.

VINES AND CLIMBERS.

		/	diness	color of the Fr.	Height in E.	Price per	cket
	NUMBER and NAME.	202	Hardiness		it in	per 7	General Observations.
20.00	1/4 oz. at oz. rate only on articles quoted at	Time of	Jardi	Color of	Teigl	rice	
	\$1 per oz. and over.					cts.	
4725 4726	Adlumia cirrhosa	2 3	hB hP	pink	15 6	10 5	Beautiful climber. Graceful twining perennial.
4727	Aristolochia sipho	2		br.&yl.	30	25	The "Dutchman's Pipe."
4728	Asparagus verticillatus	1		white	12	10	Very beautiful foliage.
4730 4732	Balloon Vine per oz., 20c. Calampelis scabra	2 3 3	hhA †hP	w.&gr. orange	10 6	$\begin{bmatrix} 5 \\ 10 \end{bmatrix}$	(Cardiospermum.) Very pretty. Fine for trellis.
4734	Canary-bird Flower, per oz., 50c.	2 3	hhA	yel.	10	5	One of the best old favorites.
4738	Centrosema grandiflora	1 2	hP	var.	6-8	25	For description, see Novelties.
4756 4758	Clematis Flammula Large-flowering hybrids	1 2		white mixed	15 var.	5 10	Virgin's Bower; very fragrant. For other sorts see Tree Seeds.
4764 4766	Clitoria ternatea		hB	blue white	15	10 10	Beautiful greenhouse and conservatory climbers.
4768 4769	Cobæa scandens per oz., 75c.	2 3	†tP	pur. white	20	10 10	Rapid growing; fine summer climbers. Start in the house.
4774 4776	Convolvulus aureus superbus major (Morning Glory) oz., 15c.		hhA hA	gold mixed	5 10	10 5	Pretty and fine for baskets, except the Morning Glory, which
4780	Mauritanicus		hP	blue	trai.	10) is good for screens. See Ipomæa Quamoclit.
4782	Dolichos Lablab per oz., 15c.		gP	pur.	10	5	(Hyacinth Bean.) Rapid grow-
4784 4785	-alba			white		5 5	ing and free flowering; good
4786	-Mixed per oz., 15c.			mixed		5	for screens.
4790 4792	Hedysarum coronarium	3	†hB	red white	3	5 5	French (Bush) Honeysuckle. Flowers sweet-scented.
4795	Humulus Japonicus		tA	green	15-20	10	Climbing Hop; pretty.
4798 4500	Ipomœa coccinea per oz., 20c. —lutea	2 3	hA	scar.	10	5 5	
4507	Horsfalliæ		tP	rose	15	25	These are very beautiful free blooming plants of the Morn-
4808 4810	hederacea grandiflora		tA	blue mar.		5 5	ing Glory family, and useful for covering verandas, trellis-work,
4812 4814	Nilper oz., 20c.			pur.	5	5 5	etc. No. 4816 is the so-called
4816 4817	Mexicana grandiflora alba — — hybrida (very early)	3		white	15	10	'' Moon Flower.' No. 4817 is very similar to the Moon Flow-
4820	bona nox (Good Night)p'r oz., 20c.					10 5	er, but blooms thirty to forty- five days earlier. Nos. 4807,
$4822 \\ 4824$	hybrida, "Heavenly Blue" Learii		gP	blue v. b.	10	25 25	4824, 4826 and 4828 are also beau-
4826 4828	rubro-cœrulea			b. r. white	8	10 10	tiful greenhouse climbers.
4835	Quamoclit (Cypress Vine)	• •					<u> </u>
4836	-White per oz , 30c.		tA.	scar. white	10	5 5	I. Quamoclit is the well known Cy-
4836a 4837	-Rose			rose	: :	5 5	press Vine; has very beautiful, bright flowers, and is deserv-
4838 4840	Ivy-leaved Cypress Vine "30c. sinuata			scar.		5 5	edly popular.
4842	pandurata		hP	white		10	
4845	Collection, including 12 varieties	1 0	_{aD}	bless	12	50	These are fine, profuse bloomers
4854	Kennedya Comptoniana	1 3	gP ···	blue scar.	4	25 25	for the greenhouse. Do best
4855	rubicunda	1 2		d. red	s •	25	in sandy loam.
4882	Lathyrus— White Everlasting Pea	2	hP	white	8	10	See also Sweet Peas, page 106.
4883 4884	Scarlet " oz.,50c. Blue Lord Anson's " oz.,15c.	1 3		scar.	6	5 5	Handsome perennials, producing beautiful flowers.
4885	White " " 15c.			white		5]
4886	Lophospermum scandens	1	tP	d. ro.	8	10	Trumpet shaped flowers.
4887	Manettia Vine		hP	sc.&y.	15	10	Beautiful climber.
4888 4890	Maurandya antirrhiniflora		†gP	pur.	10	10	Abundant bloomers, and very
4892 4894	alba			white		10	desirable for the greenhouse and garden. Should be in every
4895 4900	purpurea grandiflora			pur.		10	collection.
4900	Mina lobata		tA	mixed wh.&r.	15	10	Curious; free bloomer; fine.
1001	Moon Flower		021		10	10	See Ipomæa Mex. grandiflora alba.
		,	1	•	1	,	

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\	Time of		Polor of the En	\$ / A	Price per	18
	/	Hardiness	B / B	Height in	/ /	
NUMBER and NAME.	/55	6 / g 4	Color of	t_{i}	/ ea	General Observations.
	/ 6	$i / \ddot{z} \approx$		1 22	/ 6	
🏂 ¼ oz. at oz. rate only on articles quoted at	/ <u>'ä</u>	ar ar	020	6.5	/ 5	
\$1 per oz. and over.	/ Fi	/==	/ ଓ	/ 平	/ 🕰	
	1	[1	cts.	
Nasturtium (Tall)—) . A				
4902 Blood Colorèd per oz., 15c. 4904 Yellow	2 3	hA	d. red	5	5	
4905 Scarlet			orange		5 5	
4906 Schillingi, bright yel. " 15c.			scar. o. yel.		5	
4910 Scheurmanii " 15c.			spot.	::	5	(Tropæolum majus.) Very good
4910a —coccineum			scar.		5	for screens or stone walls; all
4911 Schulzi					5	are very showy in flower, and
4911a Edward Otto " 15c.					5	desirable acquisitions to gar-
4912 hemisphæricum " 15c.			orange		5	dens.
4912a Roeglianum			pur.		5	
48120 MIXEU 100.			mixed		5	
Collections, including—						
12 vars. Nasturtium, Tall					50	
0			, ,		40	
4912c Passiflora cœrulea		hhP	blue	10	10	Called "Passion Flower," on ac-
4913 —grandiflora			white	6	10	count of a fancied resemblance
4914 gracilis			pink	$\begin{array}{c c} 10 \\ 25 \end{array}$	10	in the flowers to the appearance
			-			presented at Calvary.
4915 Phaseolus Caracalla		• •	lilac	5	10	Curious fragrant flowers.
4915a Smilax (Myrsiphyllum as para-		D	-1.24.	0	10	Extensively used for floral deco-
goides) per oz., 75c.	• •	gP	white	6 -	10	frations; very pretty foliage.
4916 Thunbergia alata		hh A	bff.&d.	5	5	Very ornamental climbers and
4918 —alba			white		5 5	abundant bloomers. They are
4920 —aurantiaca			orange white		5	also very effective as bedding
4924 —Fryeri			orange		5	} plants, if a little pains be taken
4926 —sulphurea			sul.		5	with them. Thrive best in a
4928 — intus alba			p. yel.		5	rich compost of fibrous loam
4930 —Mixed per oz., 40c.			mixed		5	and sand.
4932 Tropæolum Canariense, oz., 50c.			yel.	10	5	The Canary-bird Flower.
4936 Lobbianum Brilliant			d. scar.	6	5	
4938 —Crystal Palace			br. red		5	
4940 — Asa Gray (new)			white		10	
4944 — Queen Victoria			scar.		5	
4945 —Fulgens				· •	5	These are very beautiful, and
4946 —Lucifer					5 5	flower abundantly. Fine for either the conservatory or out-
4948 —Spitfire			blood		5 5	door decoration. Thrive in
4950 —Lilli Smith			cr. sc.		5	light, rich soil. See also Nas-
4951 —Mixed per oz., 20c.			mixed		5	turtium. Nos. 4954 and 4956
4954 pentaphyllum		†gP	0.&y.	5	10	should be grown in pots.
4956 tricolorum			0.&p.		25	
Collections, including-						
12 vars. Tropæolum Lobbianum					50	
6 " " " "	•			1	30	

SWEET PEAS (LATHYRUS ODORATUS).

These exceedingly beautiful, fragrant and deservedly fashionable hardy annuals are too well known to need any description. Seed may be sown either in the autumn or early in the spring.

All 5 cents per packet.

	Per oz.	Per oz.
Adonis. Carmine	. \$0 15	Orange Prince. Bright orange-pink \$0 15
Alba Magnifica. Pure white	. 15	Painted Lady. Rose and white 15
Apple-Blossom. Bright pink and blush	. 15	Princess Beatrice. Fine rose
Black Purple	. 15	Princess of Wales. White, blue striped 15
Striped		Princess of Prussia. Bright blush 15
Boreatton. Bronze-crimson and purple		Queen of the Isles. Scarlet, mottled with
Butterfly. White and lilac	. 15	white and purple 30
Captain Clarke. Tricolor	. 15	Red Striped
Cardinal. Crimson-scarlet	. 15	Splendor. Bright rose, flushed crimson 15
Dark Red	. 15	The Queen. Pink, with mauve wings 15
Delight. White, tinted rose	. 25	Vesuvius. Dark red, fine
Duchess of Edinburgh. Scarlet and rose.	. 15	White
Fairy Queen. White and rose	. 20	Mixed, per lb., 75c
Invincible Blue. Very fine		Eckford's Splendid Mixed, per lb., \$1.25 20
—Carmine	. 20	Collections of Sweet Peas— Each.
-Scarlet	. 15	12 vars. Choicest sorts
Isa Eckford. Rosy pink, flushed carmine	. 15	12 " Eckford's New Hybrids 1 00
Light Blue and Purple	. 15	8 " " " 75
Miss Blanche Ferry. Pink and white	. 15	6 " " " 60
	•	

ORNAMENTAL GOURDS AND FRUIT-BEARING VINES AND PLANTS.

			<u>å</u> 0 /	# /	10 /	et /	/ /
	NUMBER and NAME.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	OWerin ess	Daratio f	F. John	er Feet	General Observations.
80	¼ oz. at oz. rate only on articles quote1 at \$1 per oz. and over.	Time of	Hardiness and and	Color of	Height in	Price per	
4964	Abobra viridiflora	2 3	tA	green	6	cts.	Pretty scarlet fruit.
4966	Balsam Pear and Apple Benincasa cerifera			yel.		10	See Momordica, below. Black, wax-like gourd.
4968	Bryonopsis laciniosa erythrocarpa	2		red	5	10	Very ornamental.
4970 4972	Cucumis erinaceus (Hedge-hog	2 3		* . *	6	10	Oblong fruit, marked with white lines, turning scarlet.
4973	Gourd)	2	hhA	yel.	8	5 5	Of-extremely rapid growth, and
4974 4975	flexuosus (Snake Cucumber) cylindrica	2 3			10 6	5 5	bears curious fruits. 4973 is the Rag or Dish-cloth gourd, the
4976 4978	grossulariæformis (Gooseberry Gourd)	2			6	5	peculiar interior of which is useful in the kitchen when
4979	Melon)					5 5	properly prepared.
4980	perennis (very fine)	2 3	hhP		15	5	
4981	Cucurbita	2	hhA		8	10	See Gourds. Curious.
	Echinocystis lobata Epopepon vitifolius		hhP	green	12 10	10 25	Wild Cucumber.
	Gourds—						Ornamental.
4983 4983	Mock Orange Egg-shaped	2	tA.	yel.	15 10	5 5 5	
4984 4986 4987	Apple-shaped					5 5	Excellent for covering verandas
4988 4989	Hercules' Club				15	5 5	or trellis work and for training over arbors, fences, etc. Of
4990 4991	lagenaria (Bottle Gourd) — — Miniature				• •	5 5	very rapid growth, with curious fruits and highly ornamen-
4992 4993	Powder-horn					5 5	mental foliage. Cultivate the same as melons or squashes.
4994 4996 4997	Melopepo (Miniature)				10 12 10–15	5 5 5	
4001	Mixed	•	• •		10 10	50	
5007	Melothria scabra	3	hhA	l.b. ·	10	10	Tropical Vine.
5008 5009	Momordica balsamina involucrata	2 3		yel.	• •	5 25 5	The well known Balsam Pears and Balsam Apple.
5010 5012	charantia					5	Squirting Cucumber.
5014 _. 5018	Mukia scabrella	$\begin{vmatrix} 3 \\ 2 & 3 \end{vmatrix}$	${f tA}$	scar.	15	10 5	Fruit reddish when ripe. Scarlet Runner Bean.
5020	Scotanthus tubiflorus	3	tP	white		25	Bears pretty fruit.
5022 5024	Solanum, White Egg-Plant Scarlet Egg-Plant		tA.	scar.	1	5 5	
5025 5038	Striped Egg-Plant		gP	strip. white	2	10	The Solanums are very orna-
5040 5042 5046	Wetherill ⁵ s Hybrid robustum capsicastrum	2 3	tA gP	bl. pur. yel.	3 2	10 10 10	mental fruit-bearing plants, and thrive best in light, rich soil. All are worth cultivat-
5047 5047 <i>a</i>	Hendersoni			purple white	3	10 10	ing.
	Collection, including 6 varieties Solanum					45	
5048	Squirting Cucumber Trichosanthes colubrina	3			4	10	See Momordica Elaterium.
5050 5052	coccinea	3	* *	yel. white		10 10 10	Snake Gourd. So called from the shape of its fruit.
	Wild Cucumber						See Echinocystis lobata,





GOMPHRENA GLOBOSA.

SEEDS OF EVERLASTINGS.

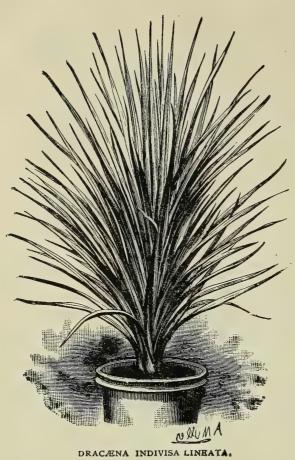
For the Formation of Wreaths and Winter Bouquets.

			- /			/	
AGE*	NUMBER and NAME, '4' oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness and r.	Color of	Height in r	Price per	General Observations.
5054 5056 5057 5058 5059	Acroclinium roseum —album —Mixed —Double Rose —Double White	2	hhA 	v.&ro. white mixed rose white	1	cts. 5 5 5 10 10	Exceedingly graceful plants with everlasting flowers; much used for winter decoration. The flower heads should be gathered when young if wanted for preservation.
5060 5061	Ammobium alatum		hhP		2	5 5	Pretty, and easily cultivated.
5062 5064 5066 5070 5071 5073 5075	Gomphrena globosa —alba —carnea —striata —nana compacta —Mixed aurea superba Collection, including 6 vars. Globe Amaranths	2 3	hA	red white pink strip. v. red mixed orange	1 1/2 1	5555555	The Globe Amaranths are known by their round heads of flowers; also called "Bachelör's Buttons." An old favorite for winter bouquets. The bestsoil is a mixture of sandy loam, stable manure and some silver sand.
5076 5078 5079 5081 5082 5098 5100	Helichrysum bracteatum —album —atrosanguineum —Mixed macranthum monstrosum, Double —Dwarf, Double Collections Helichrysum, including 12 vars. Double 10 "" 8 "" 6 "" 6 "" Dwarf			yel. white d. red mixed rose mixed	2 1/2	5 5 10 5 5 5 5 5 5 5 40 30 30	"Eternal Flowers." All are greatly admired for their beauty. The flowers are large and the colors bright. They are highly prized for winter bouquets. Flowers intended for drying should be gathered when partially unfolded, and suspended with their heads downward, in a cool shed. Succeed best in a rich, loamy soil.
5107 5108	Helipterum Sanfordii	2	tA	yel. white	1	10 10	Resemble Helichrysum, and are useful in the same way.
5110 5114 5115 5118	Rhodanthe maculata	2 3		r. & w. white mixed r. & w.	1/2	10 10 10 10	Very beautiful, delicate looking Everlastings, much prized for winter bouquets.
.5120 .5122 .5125 .5126 .5127	Xeranthemum annuum	2	hA	pur. white purple white pur.	2	5 5 5 5 5 30	One of the oldest Everlastings; the flowers retain their color and form longest of all.

ORNAMENTAL GRASSES.

Many of these grasses, if cut before they are entirely ripe, will be found useful in the formation of winter bouquets, in connection with the Everlastings.

						/	
AST	NUMBER and NAME, - 1/4 oz. at oz. rate only on articles quoted at	Time of	Hardiness and r	Color of	Height in E	Price per	General Observations.
	\$1 per oz. and over.	/ <i>E</i>	/ <i>P</i>	/ ଓଁ	/ 平	/ AJ	
5128 5130 5132	*Agrostis nebulosa pulchella minutiflora	2	hA	apet.	1	5 5 10	Very fine for vases and bouquets. The plumes of A. nebulosa are very delicate.
5136	*Andropogon argenteus	3	hP		3	5	Dense flowers, very silky, with bright white hairs.
5138 5140 5142	Arundo Donax				10	5 10 10	Fine sub-tropical plants of state- ly growth, and very ornamental in habit.
5144	Avena sterilis	2 3	hA		3	5	Animated Oats. Curious.
5150 5152 5154	Briza geniculata	2			1 11/2	5 5 5	Quaking Grass. No. 5154 is very pretty for bouquets.
5158 5160	Brizopyrum siculum Bromus brizæformis	• •	hP		3/4 2	5 5	Dwarf species of Spike Grass. No. 5160 is very fine for winter bouquets. To this genus be-
5162 5164	macrostachyus					5 5	longs the Cheat Grass, a well-known pest.
5165	Ceratochloa pendula	2 3				25	Elegant for bouquets.
5 165 <i>a</i>	Chloropsis Blanchardiana	2	tP			25	Dwarf; very fine for edgings.
5166 5168	Chloris barbata veratruncata				1 8/4	5 5	Elegant for groups, and also good for baskets.
5170	Chrysurus cynosuroides		hA		1	5	Pretty for edging.
5172 5174	Coix lachryma	2 3			1½	5 10	Job's Tears; so called from the resemblance of the seed to a tear-drop.
5175	Cryptopyrum Richardsonii	2		• •	2	10	Very fine grass.
51750	Cynosurus elegans		hP			5	Handsome for bouquets.
5176 51766 51768		2 3	hA ::		1	5 5 5	Crab or Yard Grass. E. Indica is the Wire Grass.
5178	Elymus hystrix		hP		. 4	5	From the Crimea. Odd.
5180 5182	Eragrostis elegans amabilis	2	hA		1	5 5	Love Grass. Pretty grasses, growing about a foot high, and
5183 5184 5185	Abyssinica			• •		5 10 5	characterized by their beautiful dancing spikelets; for bouquets.
5188 5190	Erianthus Ravennæ *—foliis variegatis	2 3	hP		10	5 10	Plume Grass. A very fine and stately-looking grass.
5192	Eulalia Japonica				5	10	Among the most beautiful of the tall-growing grasses.
5196	Festuca glauca				2	10	Fescue Grass. Ornamental.
5198 5202	Gymnothrix (Pennisetum) caudata		tP		8	10 10	Grown chiefly as curious and ornamental grasses.
5205 5207 5207 5208	*Gynerium argenteum					5 10 10 10	Pampas Grass. This is the noblest of the tall-growing grasses, and bears magnificent plumes, much used in floral decoration.
5212	Hordeum jubatum		hA		2	5	Squirrel-tail Grass.
5213	Isolepis gracilis				1/2	10	Very pretty rush-like grass.
5216	Lagurus ovatus	1	hA	apet.	2	5	Hare's-tail Grass.
5218	Lasiagrostis argentea	1	hP	1	.3	5	Fine for winter bouquets.





KENTIA BELMOREANA



PANDANUS UTILIS.



KENTIA CANTERBURYANA.



ARECA BAUERI.



LATANIA BORBONICA.



PHŒNIX CANARIENSIS.

40	NUMBER and NAME, - 1/4 oz. at oz. rate only on articles quoted at \$1 per oz. and over.	Time of	Hardiness	Color of	Height in E	Price per	General Observations.	
5225 5226	Panicum virgatum sulcatum	2 3	hA · ·	apet.	4 3	5 10	Very showy and hardy perennial grasses.	
5228	Pennisetum villosum	1			1½	5	Ornamental Grass.	
5229	Poa amabilis				2	10	Pretty for bouquets.	
5230	Setaria macrochæta		hA		1½	5	Ornamental grass.	
5234 5235	*Stipa pennata elegantissima	2	hP			5 10	Feather Grass. Grown for their very graceful plumes.	
5237	Tricholæna violacea	2 3				10	A very pretty grass.	
5242	Tripsacum dactyloides	4			4	5	Sesame Grass. Singular.	
5248 5255	Zea Japonica	2	hA	::	3	5 5	Ornamental varieties of Corn. Z. Japonica has beautifully striped leaves.	
25 va 12	COLLECTIONS.							

PALM SEEDS.

Imported direct from Australia, New Zealand, South America, Central America and West Indies; fresh seeds arrive throughout the year, but mostly during the spring and summer.

		Per 100	Per 100
	Pkt.	seeds.	Seeds. Pkt. seeds.
Areca Baueri (Norfolk Island			Dracæna indivisa lineata 25 " \$0 10 \$0 25
Palm) 12 seeds, \$6	25		Geonoma Schottiana 8 " 25 2 50
" lutescens	25	1 25	Kentia Belmoreana 10 " 25 2 00
" rubra	25	1 25	" Forsteriana 10 " 25 2 00
" sapida 8 "	10	1 00	" Canterburyana (U m-
Brahea edulis 4 "	25	5 00	brella Palm 10 " 50 4 00
" filifera (Washingtonia) 25 "	10	30	" Morei
Caryota sobolifera 10 "	25	2 00	Latania Borbonica
Chamærops Canariensis 8 "	10	1 00	Musa Ensete (Abyssinian Ba-
" elegans 10 "	25	1 50	nana) 10 " 25 2 00
" argentea. 12 "	25		Oreodoxa regia (Royal Palm) . 8 " 10 1 00
" excelsa 25 "	10		Pandanus utilis (Screw Pine) .15 " 25 1 25
humilis 20 "	10		Phœnix Canariensis12 · " 10 60
Cocos australis 8 "	25	2 50	" dactylifera (Date
"Bonnettii 8 "	25	2 50	Palm) 12 " 10 50
	25		" reclinata 15 " 25 1 25
campesuris	25		
prumosa 10	-		
ncauosa	25		tenuis 10 1 00
Weddellana o	25	2 50	pumia
Corypha australis (Cabbage			parudosa
Palm) 10 "	10		Ptychosperma Alexandræ 12 " 25 1 50
Dracæna Australis 20 "	10	25	Seaforthia elegans 8 " 10 1 00
indivisa (per 1,000			Thrinax argentea 12 " 25 1 25
seeds, 75 cts.) 50 "	10	15	

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" Dwarf		5	Reseda odorata, "Machet" (Mignonette)		10
Chrysanthemum inodorum		10	Silene, Mixed		5
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verna		5	Spraguea umbellata		25
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